

AUTHOR INDEX

A

- Abd-el-Malek, Y., 78, 81, 83, 86
 Abe, S., 60, 68
 Abinanti, F. R., 105, 106, 107
 Ackart, W. B., 30
 Ackermann, W. W., 439, 457, 458
 Ada, G. L., 231, 232, 234, 235, 236, 237
 Adair, C., 389
 Adair, C. R., 168
 Adair, G. S., 219
 Adams, F. H., 291, 294
 Adams, M. H., 335
 Adams, R. D., 289, 291
 Adamson, C. A., 211
 Adelberg, E. A., 16
 Afanasieva, A. L., 191
 Agius, T., 249
 Agosin, M., 293
 Ahern, J. J., 391, 402, 403
 Ainslie, D. S., 457, 458
 Ainslie, J. D., 268
 Aji, S. J., 2, 11, 338
 Albert, A., 425
 Alberty, R. A., 208
 Albin, F. E., 156, 158
 Aldous, E., 54
 Aldrich, F. D., 142
 Alexander, D., 456
 Alexander, H. E., 64
 Allen, B., 61
 Allen, E. K., 192
 Allen, I., 349
 Allen, J. H., 216
 Allen, K., 356
 Allen, M. W., 162, 175
 Allen, O. N., 192, 198
 Allison, F. E., 188, 193
 Allison, L. E., 202
 Altemeier, W. A., 403
 Altona, J., 424, 428
 Amer, F. M., 189
 Amillie, L., 84
 Amrein, Y. U., 415
 Andersen, E. K., 267
 Andersen, E. K., see Krag
 Andersen, E.
 Anderson, A. J., 193
 Anderson, B., 171
 Anderson, E. H., 56, 58, 59, 60
 Anderson, G. R., 190
 Anderson, J. A., 266
 Anderson, P. J., 161
 Anderson, S. G., 230, 231, 232, 235, 236
 Anderson, T. F., 146, 304, 334, 335
 Andersson-Kottö, I., 53, 54
 Andervont, H. B., 256
 Andrejew, A., 416
 Andrew, R., 100
 Andrew, V. M., 269
 Andrew, W., 266
 Andrewes, C. H., 119-38, 127, 128, 129
 Andrewes, F. W., 119
 Andrews, E. A., 34
 Andrus, S. B., 289, 291
 Anfinsen, C. B., 306
 Angier, R. B., 444
 Anigstein, L., 284, 285, 290, 291
 Anslow, R. O., 263, 264, 269
 Anthony, D. S., 13
 Aposhian, H. V., 449
 Arbogast, R., 337
 Arima, K., 51, 55, 56, 57, 58, 60, 65, 68
 Armistead, E. B., 223
 Armitage, P., 349
 Armstrong, C., 101, 249
 Armstrong, M. D., 454
 Armstrong, S. H., Jr., 212
 Arnaud, Y., 431
 Arndt, C. H., 164
 Arnold, R. C., 311
 Arnold, W. P., Jr., 393
 Arreola, E. C., 395
 Aschner, M., 91, 324
 Ashe, R., 395
 Ashworth, J. N., 208, 209
 Assendelft, F. van, 394
 Atkinson, D. E., 454
 Atwood, K. C., 51, 57, 59, 67, 68
 Audrain, L., 31
 Audus, L. J., 201
 Audy, J. R., 102, 103, 104
 Auhagen, E., 440
 Austin, M. L., 63
 Aycock, R. R., 399
 Aycock, W. L., 252, 268
 Ayengar, P., 37
 Ayers, J. C., 101, 102

B

- Baars, J. K., 200
 Babbage, N. F., 398
 Babcock, G. M., 442
 Bacon, G. A., 59, 65, 66
 Baddiley, J., 448
 Bader, M. E., 400
 Badger, G. F., 429
 Baehr, G., 96, 97
 Baer, H., 218
 Bailey, C. A., 109, 111, 112, 392, 395, 398
 Bailey, J. H., 425
 Bailey, N. T. J., 61
 Bailey, W. T., 335
 Baines, R. C., 164, 171
 Baird, J. W., 398
 Baird, K. J., 194
 Baker, L. E., 269
 Baker, R. R., 145
 Bakerman, H. A., 443
 Balamuth, W., 415
 Bald, J. G., 145, 147
 Baldwin, H. I., 373
 Baliga, B. R., 443
 Balis, M. E., 19
 Baljet, H., 417, 418, 431
 Ball, E. G., 306
 Ball, W. O., 399
 Ballard, E. L., 395
 Balmus, G., 284, 287, 294
 Baltazard, M., 95, 97
 Bang, F., 132
 Bang, F. B., 254, 256
 Banks, T. E., 216
 Barban, S., 2
 Barber, M., 388, 391, 423
 Barber, T. E., 400
 Bard, R. C., 1, 32, 40
 Bardos, T. J., 440, 442
 Barer, G. R., 68
 Barger, F. L., 440, 442
 Barham-Black, G. H., 252
 Barker, H. A., 2, 3, 5, 8, 14, 30
 Barker, L. P., 101
 Barnes, B. A., 208
 Barnett, H. L., 41
 Barnett, V. H., 258
 Barr, M., 351, 356, 359
 Barrat, R. W., 50
 Barratt, M. M., 124
 Barrons, K. C., 158
 Barry, G. T., 337
 Bartels, G. C., see Cremer-Bartels, G.
 Bartholomew, W. V., 189
 Bartner, E., 213, 214
 Basinski, D. H., 232
 Basora y Defillo, J., 394
 Bastian, H. C., 151
 Basu, S. N., 41
 Batchelor, T. M., 396
 Batson, H. C., 362
 Batson, H. D., 362
 Bauer, R. E., 111, 398
 Baumgartner, L., 267
 Baunacke, W., 169
 Bavel, C. H. M. van, 199
 Bawden, F. C., 122, 147
 Baxi, A. J., 443
 Bayarri, V. S., see Sanchis-Bayarri, V.

- Bayliss, M., 421
 Beach, J. R., 250
 Beale, G. H., 63
 Beale, H. P., 144, 197
 Beard, D., 231
 Beard, J. W., 231
 Beck, M. D., 98, 105, 106
 Becker, E. L., 219
 Beckett, R. S., 293
 Bedford, C. L., 320
 Bedson, S. P., 128
 Beekman, H., 289, 293
 Beeman, E. A., 107, 264
 Beerman, H., 306, 307
 Beerstecher, E., Jr., 17, 419, 437, 454, 455, 456
 Beeson, G., 450
 Behr, W. T., 447
 Bell, W. C., 398
 Beiler, J. M., 446
 Beiling, R., 108
 Bein, M. L., 450
 Beinfeld, M. S., 396, 398
 Beisele, J. J., 453
 Bell, E., 37
 Bell, E. J., 91-118, 99, 105, 106
 Bell, J. A., 105, 106, 107, 264
 Bell, M. J., 443
 Bell, T. A., 317, 320, 327, 329, 331
 Bellerive, A., 397
 Belser, W. L., 51, 52, 54, 60, 65, 66, 68
 Belsky, M. M., 36
 Benda, R., 413
 Bendich, A., 222, 223, 443
 Bendixen, H. C., 77, 81, 87
 Benedek, T., 398
 Benedict, F. G., 265
 Benenson, A. S., 253
 Bengtson, I. A., 98
 Ben-Ishai, R., 22
 Benner, S. R., 249
 Bennett, A. M., 249
 Bennett, B. L., 100, 259
 Bennett, I. L., 241
 Bennett, L. L., Jr., 443, 453
 Bennett, M. A., 440
 Benson, J. F., 111, 112, 398
 Bentley, H. R., 457
 Benzer, S., 333, 335, 341, 346
 Berend, E., 78
 Berge, T. O., 102, 109
 Berger, J., 447
 Berger, R. E., 453
 Bergersen, F., 392, 423
 Bergey, D. H., 299
 Bergmann, E. D., 22
 Bergold, G., 130
 Berkhout, M., 331
 Berkman, S., 416, 421, 423
 Berman, J. R., 423
 Bernard, A., 393
 Berne, R., 288, 289, 291
 Bernhart, F. W., 42
 Bernhisel, H., 221
 Bernkopf, H., 254, 255
 Bernstein, H. G. G., 249
 Berry, J. W., 392, 399, 403
 Bertani, G., 51, 52, 55, 56, 57, 60, 62, 66, 342, 343
 Bertelli, J. C., 163
 Bertelli, L. K., 163
 Bertucci, E. A., Jr., 300
 Bessey, O. A., 271
 Besson, S., 428
 Bethall, F. H., 457
 Beutner, E. H., 24, 65
 Beveridge, W. I. B., 229, 253, 255, 265
 Bhaduri, S. N., 194
 Biegeleisen, J. Z., 394
 Bieseke, J. J., 266
 Bigger, J. W., 414, 427, 428
 Billaudell, H., 64
 Billen, D., 3, 18, 40
 Binckley, E. C., 282, 284, 285, 287
 Bindslev, G., 355
 Bingefors, S., 166
 Bingham, E. M., 249
 Binkhorst, C. D., 281, 294
 Biocco, E., 281, 284, 291
 Bird, H. H., 87
 Bird, O. D., 448
 Bischoff, H., 394
 Bisset, K. A., 65, 78, 79, 80, 192
 Biswas, S. C., 189
 Bittancourt, A., 128
 Bittencourt, P. Y. C., 164
 Bitters, W. P., 164
 Bittner, J. J., 262
 Björkman, E., 369, 370, 373, 374, 378
 Black, A., 265
 Black, G. H. B., see Barham-Black, G. H.
 Black, H., 132
 Black, L. M., 135, 146
 Black, S., 20
 Blair, J. E., 393
 Blakemore, F., 262
 Blanc, G., 95, 97, 105, 107, 282, 284, 287, 294
 Bland, J. O. W., 128
 Blanton, F. S., 171
 Blauch, B. M., 62
 Bliss, C. I., 349, 351
 Bliss, E. A., 429
 Blitz, D., 400
 Bloch, R. G., 424, 428
 Block, R. J., 266
 Blonstein, M., 222
 Blum, H. F., 59
 Blynn, E. H., 440, 442
 Boag, I. W., 50
 Boake, W. C., 230, 242
 Bode, O., 145
 Bodian, D., 271
 Boger, W. P., 392, 393, 398
 Bogucki, A. S., 105, 106
 Bohnhoff, M., 413
 Boivin, A., 49
 Bolin, V. S., 266
 Bond, G., 193
 Bond, T. J., 440, 442
 Bonde, R., 82
 Bondi, A., 424, 428
 Bonner, D. M., 15, 21, 62
 Bonner, J., 145
 Bonnin, J. M., 100
 Booher, C. E., 397
 Boothe, J. H., 444
 Borek, E., 38, 458
 Bornschein, H., 68
 Borrel, A., 124
 Bortels, H., 190
 Bose, P. N., 103
 Bosher, J. E., 161
 Boursnell, J. C., 368
 Bovarnick, M., 231, 232
 Bovarnick, M. R., 92, 93, 110
 Bowman, W. M., 215
 Boy, G., 265
 Boyd, B. L., 445
 Boyd, J. S. K., 343
 Boyd, R. B., 23
 Boyd, W. L., 18
 Boyer, P. D., 454
 Bozicevich, J., 289, 394
 Bracq, Z. M., 57, 58
 Bradley, J. E., 394
 Brainerd, H., 396
 Brambell, F. W. R., 211
 Branco, F., 105
 Brand, E., 213, 214
 Brandwijk, A. C., 81
 Branham, S. E., 359
 Brasch, A., 57, 58
 Braun, H., 82, 84
 Braun, W., 37, 49, 67, 68
 Breaky, E. P., 171
 Breed, R. S., 120, 121
 Breeze, B. B., 393
 Brehmer, W. von, 143
 Brent, M. M., 415
 Brian, P. W., 197
 Brian, R. C., 199
 Brierley, P., 147
 Brigham, G. D., 98, 287, 294
 Brink, N. G., 446
 Brink, W. R., 393
 Briody, B. A., 231
 Broben, J. A., 242
 Brockman, J. A., 440, 442
 Brodie, A. F., 24
 Bromfield, S. M., 199
 Brockman, B., 249
 Brooks, R. St. J., see St. John-Brooks, R.
 Broquist, H. P., 34, 35, 440, 442, 443
 Brown, A., 212, 213
 Brown, C. H., 62
 Brown, D. B., 19
 Brown, D. M., 212, 213, 221,

AUTHOR INDEX

469

- 222
Brown, G. B., 19, 36, 454
Brown, G. C., 268, 457
Brown, G. M., 447, 448
Brown, H. E., 100
Brown, J. S., see Snyder-Brown, J.
Brown, M., 362
Brown, R. A., 208, 210, 211, 213, 218
Brown, R. K., 208
Brownlee, G., 313, 387, 426
Broz, V., 96
Bruff, S. A., 426
Brug, S. L., 284
Brumpt, E., 129, 282
Brumpt, L. C., 97
Brun, J., 441
Bruneau, J., 105, 107, 287, 294
Bruner, D. W., 287, 294
Brunner, K. T., 396
Brusoff, A., 78
Bruyn, H. B., 396
Bryce, L. M., 354
Bryer, M. S., 111
Bryson, V., 56, 66
Buchanan, R. E., 120
Buchman, J., 393
Buckingham, M., 264
Budd, V., 423
Buerk, M. S., 306, 307
Buescher, E. L., 230
Bugher, J. C., 259
Buhner, E. M., 155
Bull, D. R., 229, 230, 255, 265
Bull, L. B., 81
Bunn, P., 389
Bunting, M. I., 67
Burchenal, J. H., 442, 443
Burchhalter, J. H., 455
Burgeff, H., 373, 378
Burger, W. C., 146
Burgess, A., 373, 377
Burgh, P. M. de, 231, 232
Burgi, E., 454
Burk, E. F., 172
Burkholder, P. W., 78
Burn, J. H., 349, 351
Burnell, J. M., 400, 402
Burnet, F. M., 131, 132, 134, 229-46, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 242, 249, 253, 255, 264, 265, 344
Burnett, J. B., 399
Burnett, W. T., 58
Burns, L., 24
Burr, M. M., 242
Burrell, J. I., 355
Burriss, R. H., 15, 190, 191
Burroughs, E. W., 265
Burroughs, H. S., 265
Burrows, T. W., 59, 65, 66
Burrows, W., 362
Burton, K., 18
Burton, K. A., 324, 331
Burton, M. O., 187
Burvill, M. I., 425
Buss, W. C., 249
Bustamante, M. E., 99
Buston, H. W., 41
Butler, B., 36
Butler, G. C., 217
Buu-Hoi, N. P., 53, 54
Byars, L. P., 173
Byrne, R. J., 396
- C
Cahn, E., 55, 56
Cairns, E. J., 166, 173
Cairns, H. J. F., 240
Calam, C. T., 169
Caldwell, A. C., 188
Caldwell, E. R., 389, 393, 402
Caldwell, R., 401
Callahan, W. P., Jr., 281, 287
Callot, J., 94
Cameron, J. W., 208, 209, 221
Camien, M. N., 36, 39
Caminopetros, J., 106
Cammarata, P. S., 18
Campaigne, E., 454
Campbell, A. M., 63
Campbell, D. H., 207, 210, 211, 212, 218
Campbell, J. J. R., 10, 20
Campillo, A. del, 12
Campillo, C. C., see Casas Campillo, C.
Canby, C. M., 87
Candel, S., 400
Candell, A., 67
Cann, J. R., 208, 210, 211, 213, 218
Cantino, E. C., 42
Capps, R. B., 249
Caputto, R., 4
Card, W. I., 109
Cardini, C. E., 4
Cardon, B. P., 8
Carlinfant, E., 359
Carlson, W. W., 447
Carpenter, B. R., 218
Carr, P. H., 80, 186
Carrel, A., 269
Carroll, J., 155
Carrozzino, O. M., 398
Carson, S. F., 12, 13, 22
Carter, A. B., 399
Carter, C. H., 399
Carter, W., 174
Carvalho, R. de S., 163
Casals, J., 258, 263, 264, 267, 269
Casas-Campillo, C., 197
Casey, D., 449
Castillas, J., 395
Castañeda, M. R., 95, 98
Castillo Sologuren, F., 95
Catchside, D. G., 49, 65
Cates, J. E., 400
Cattell, M., 349
Cavalli, L. L., 57, 59, 61, 359
Cavalli-Sforza, L. L., 49, 61
Cavallito, C. J., 425
Ceburkina, N. V., 94
Ceddaha, L., 209
Cercos, A. P., 198
Cerecedo, L. R., 449, 457
Chabaud, A., 105, 287, 294
Chaikoff, I. L., 457
Chalaust, R., 191, 195
Chamberlain, R. W., 255
Chandler, C. A., 389
Chandler, V. L., 399
Chang, N. C., 104
Chang, S., 397
Chang, S. C., 39
Chang, S. L., 305, 309, 310, 313
Chao, P. K., 62
Chao, S. H., 104, 108, 109
Chapman, J. B., 443
Chargaff, E., 94
Charnay, J., 40
Chase, F. E., 36, 83, 84, 186, 188
Chase, M. J., 334, 335, 343
Chatton, E., 282, 284, 294
Cheever, F. S., 264
Cheldelin, V. H., 33, 43, 441, 448
Chemerdar, C. M., 269
Chen, C. H., 396
Chen, S. Y., see Shih-Yi-Chen
Cheng, A. L. S., 34
Cheo, C. C., 145, 168
Chesters, C. G. C., 20, 187
Cheymal, J., 265
Chilton, S. J. P., 198
Chitwood, B. G., 151-84, 155, 156, 157, 158, 160, 162, 163, 170, 171, 172, 173, 174
Choudhri, R. S., 201
Christen, R., 293
Christensen, B. E., 441
Christiansen, A., 50
Christiansen, M., 282, 287, 294
Christie, J. R., 156, 157, 158, 159, 164, 165, 167, 172, 173, 174, 175, 177
Christie, R., 354
Christie, R. V., 400
Chu, C. M., 132, 242
Chu, L. W., 230
Chu, V. M., 173
Ciferri, R., 198, 325
Cifuentes, O., 249
Clapper, W. E., 389, 419, 423
Clark, D. A., 454

- Clark, E., 229
 Clark, F. E., 78, 79, 80, 82,
 186, 188, 189, 195, 196,
 202, 373
 Clark, J. B., 52, 53, 54, 55,
 61
 Clark, P. F., 271, 456
 Clark, W. H., 105, 106, 107,
 396, 398
 Clarke, F. G., 207
 Clarke, N. A., 342
 Clarke, O. F., 164, 171
 Clavero, G., 105
 Clayton, E. E., 174
 Cline, J., 333
 Cline, W. A., 423
 Clowes, F. A. L., 374, 376,
 377
 Cobb, G. S., 157
 Cobb, N. A., 161, 162, 163,
 164, 165, 177
 Cochran, G. W., 144
 Cochrane, L. C., 140
 Cochrane, V. W., 201
 Cockburn, W. C., 362
 Codeleonecini, E., 108, 109
 Cohen, P. P., 18
 Cohen, R. S., 100
 Cohen, S., 9, 94, 95, 96, 97,
 216
 Cohen, S. S., 333, 336, 337,
 338, 339, 340, 341
 Cohn, E. J., 208, 209
 Cohn, M., 208, 209, 210, 219,
 222
 Colaco, A. F., 105
 Cole, L. J., 67
 Cole, Q. P., 457
 Cole, R. M., 264
 Cole, V. V., 265
 Coleman, D. H., 393
 Coleman, V. R., 399, 400,
 401, 402, 426
 Coles, G. W. A., 129
 Colien, F. E., 81
 Colkins, D. G., 446
 Collier, H. O. J., 445
 Collier, W. A., 242
 Colligan, D., 198
 Collins, G. R., 424
 Collins, H. S., 395, 398, 399,
 402
 Colmer, A. R., 29
 Colovos, G. C., 212
 Colowick, S. P., 19, 20, 39
 Commoner, B., 452
 Conn, H. J., 77, 78, 80, 81,
 82, 83, 84, 88, 185, 195
 Connell, G. H., 325, 326
 Conrat, H. F., see Fraenkel-
 Conrat, H.
 Consden, R., 144
 Constantin, T., 61
 Cook, M. T., 147
 Coolidge, T. B., 6
 Cooney, M., 291, 294
 Cooper, G. R., 223
 Cooper, J. A., 211
 Cooper, P. D., 387, 431
 Cooper, W. E., 198
 Cooperman, J. M., 446, 447
 Copper, A. C., 289, 293
 Cornut, S., 10
 Costa, A. S., 164
 Cosulich, D. B., 440, 442,
 444
 Côté, L., 33
 Cottrell, L., 266
 Coulston, F., 282, 284, 285,
 287
 Courtney, W. D., 167, 171
 Cowdry, E. V., 131
 Cowen, D., 281, 282, 285,
 287, 292
 Cowles, P. B., 342
 Cox, H. R., 101, 102, 110,
 111, 254, 255, 256
 Craig, J. A., 21, 35, 447, 448
 Cralley, E. M., 168, 172
 Crane, C., 424
 Craver, L. F., 443
 Crawley, J. F., 254, 255
 Cremer-Bartels, G., 441
 Cresson, E. L., 33, 446
 Cristol, S. J., 454, 457
 Critchfield, F. H., 457
 Crocker, C. G., 99
 Crocker, T. T., 100
 Crofts, J. E., 413
 Cronk, B., 396
 Cronk, G. A., 399
 Cross, J. B., 282, 283, 284,
 285, 289, 290, 291
 Crossman, L., 172
 Crowley, J. H., 229
 Crump, L. M., 187
 Culbertson, W. R., 403
 Curd, F. H. S., 430
 Curley, F. J., 268
 Curnan, E. C., 261, 264
 Curnen, E. C., 230, 242
 Currie, J. H., 158
 Curtain, C. C., 231
 Curtis, J. H., 368
 Curtis, R. M., 211
 Cury, A., 324
 Cutter, V. M., Jr., 62
 Cutting, M., 265
 Cutting, W. C., 413
 Cutts, N. S., 418
 Czekalowski, J. W., 424
- D
- Daft, F. S., 443
 DaGama, M. M., 105
 Dagley, S., 7
 Dailey, H. R., 288, 292
 Dalldorf, G., 261, 263, 264
 Dallimore, C. E., 166
 Dalton, F. H., 202
 Damme, O. van, 431
 Dammin, G., 302
 Daniel, E. E., 457
 Daniel, L. J., 445
 Dargeon, H. W., 443
 Darrow, E. M., 292, 395
 Das Menon, V. K., 104
 Daste, P., 196
 Davenport, F. M., 233, 242
 Davey, D. G., 430
 Davidson, H., 336
 Davidson, V. Z., 389
 Davies, W. L., 271
 Davis, B., 442
 Davis, B. D., 16, 22, 57, 60,
 61, 65, 66, 94, 210, 442
 Davis, D., 33
 Davis, D. H. S., 287
 Davis, G. E., 299, 300
 Davis, P. L., 443
 Dawes, E. A., 7
 Dawson, I. M., 131, 132
 Dawson, R. C., 200
 Dawson, R. F., 380, 382
 Dawson, V. T., 200, 201
 Day, H. G., 454
 Day, L. H., 158
 Day, P. L., 443
 Day, R. L., 218
 De, P. K., 192
 Dean, B. H., 105, 106
 Deane, G. E., 394
 De Baan, P., 230
 de Burgh, P. M., see Burgh,
 P. M. de
 DeBusk, B. G., 23, 35
 Defillo, J. y B., see Basora
 y Defillo, J.
 de Haan, P. G., see Haan,
 P. G. de
 Dekker, N. M. S., see
 Stelling-Dekker, N. M.
 Delage, B., 107
 de la Haba, G., see Haba,
 G. de la
 DeLamater, E. D., 50, 65
 de Langerijt, J. van, see
 Langerijt, J. van de
 Delannoy, G., 64
 Delaporte, B., 65
 DeLay, P. D., 106
 Delbrück, M., 50, 51, 52, 57,
 333, 335, 336, 341, 343
 del Campillo, A., see
 Campillo, A. del
 de Ley, J., see Ley, J. de
 DeLorenzo, W. F., 63
 Delwiche, C. C., 145
 Delwiche, E. A., 20
 Demars, R. L., 345
 Demerec, M., 51, 52, 54, 55,
 56, 57, 60, 61, 62, 65, 66,
 68
 DeMoss, R. D., 1
 Dempsey, E. W., 304
 Denny, F. W., 393
 DeOme, K. B., 106
 DePrada, J., 105
 De Ritter, E., 34
 Derouaux, G., 208

Derrick, E. H., 100
 Derr, H. G., 191, 323
 de St. Groth, S. F., see
 Fazekas de St. Groth, S.
 Despois, R., 427
 Dettwiler, H. A., 253
 Deuel, H. J., Jr., 34
 Deutsch, H. F., 208, 209, 212,
 219, 222
 Deutschman, Z., 99, 103
 Dewey, V. C., 36, 444, 453
 de Wolfe, T. E., see Wolfe,
 T. E. de
 de Wolff, H. H., see Wolff,
 H. H. de
 Dhar, N. R., 189
 Diamond, L., 42
 Diamond, L. K., 216
 Dianzani, M. U., 64
 Dias-Rivera, R., 392, 396
 DiCarlo, F. J., 31, 452
 Dickerman, J. M., 195
 Diddens, H. A., 317, 330
 Dienes, L., 134
 Dienst, R. B., 396
 Diercks, F. H., 103, 104, 109,
 111, 112, 392, 398
 Dietz, C. C., 424, 428
 DiLapi, M. M., 217, 359
 Dillon, E. S., 231
 DiLorenzo, J. C., 395
 Dimbleby, G. W., 371
 Dimmick, I., 78, 80, 81, 82,
 83, 84, 88, 185, 195
 Dimock, A. W., 172, 173
 di Modrone, L. V., see Vis-
 conti di Modrone, L.
 di Modrone, N. V., see Vis-
 conti di Modrone, N.
 Dingle, J. H., 429
 Dinning, J. S., 443
 Dion, H. W., 446
 Dippell, R. von, 63
 Dissosway, C., 51, 52, 54,
 60, 65, 66, 68
 Dittleoser, E., 62
 Dittmar, C., 443, 453
 Dittmer, K., 38, 454, 455,
 456, 457, 458
 Dittrich, W., 68
 Djakovic, P., 96, 104
 Doane, J. C., 96, 97
 Dobie, D. L., 55, 56, 60
 Dochez, A. R., 230, 242
 Doermann, A. H., 334
 Doetsch, J., 193
 Doetsch, R. N., 42, 82, 84
 Doig, A. T., 355
 Dolin, M. I., 2
 Dollfus, R. P., 175
 Dollinger, E. I., 61
 Dolman, C. E., 362
 Donaldson, H. H., 265, 266
 Donovick, R., 391, 423
 Dorfman, R. I., 442
 Dortch, H., Jr., 271, 272
 Doudoroff, M., 14, 65

Douglas, H. C., 8, 19, 63, 82,
 87
 Dowling, H., 389, 393, 402
 Downie, D. G., 368
 Dowson, W. J., 78, 80
 Dozois, T. F., 269
 Dragsted, P. J., 389
 Drake, M. E., 394
 Drea, W. F., 419, 420, 454
 Drechsler, C., 166, 175
 Dreker, L., 34, 447
 Drell, W., 448, 453
 Drew, R. M., 37
 Drobeck, H. P., 284, 285
 Droegemueller, C., 302
 Dubos, R. J., 314
 Duchon, M. L., 398
 Duffy, C. E., 259, 260, 271
 Dufrenoy, I., 59
 Dufrenoy, J., 313, 371, 421,
 428, 430
 Dulbecco, R., 333, 335, 341,
 344, 346
 Dunavont, D., 395
 Dunlop, M. J., 166
 Dunn, C. G., 57
 Dunn, F. W., 456
 Dunn, M. S., 38, 39, 448
 Duprat, E., 318
 Duraiswami, S., 65
 Duran-Reynals, F., 261, 262,
 268, 269
 Durbin, G. I., 42
 du Vigneaud, V., see
 Vigneaud, V. du
 Dyer, H. A., 311
 Dyer, H. M., 457
 Dyer, R. E., 105, 107

E

Eagle, H., 299, 302, 306, 307,
 308, 311, 312, 388, 401,
 414, 415, 429, 430
 Eakin, R. E., 437, 439
 Eaton, M. D., 111, 358
 Eckert, E. A., 231
 Edeson, J. F. B., 423
 Edison, M., 453
 Edmonds, E. J., 17, 456
 Edney, M., 233, 234, 235, 239
 Edsall, G., 359
 Eggleston, L. V., 84
 Ehrlich, W. E., 223
 Ehrlich, P., 311, 351
 Eibert, H. B., 400
 Eichenwald, H., 285, 292,
 294
 Eichin, R., 450
 Eicke, R., 145
 Eigelsbach, H. T., 67
 Eisen, H. N., 216
 Eisenstark, A., 190
 Eisenstark, R., 190
 Eklund, C. M., 105, 249
 Eldering, G., 362
 El-Din, G. N., 395
 Elek, S. D., 219
 Elias, C. A., 53, 54
 Elias, W., 369
 Elford, W. J., 132
 Elton, G. B., 420, 445, 451,
 452, 453, 454
 Ellenby, C., 170, 174
 Ellenby, E., 169
 Elliot, D. F., 454, 455
 Elliott, M. E., 362
 Elliott, S. D., 218
 Ellis, G., 454
 Ellison, R. R., 442
 Elson, B. E., 106
 Elton, C., 287
 Elvehjem, C. A., 271, 447,
 456, 457
 Elvidge, J. A., 17
 Emerson, G. A., 446, 449
 Emerson, M. A., 62
 Emerson, S., 62, 66
 Enders, J., 133
 Enders, J. F., 210, 230, 254,
 264, 265
 Enebo, L., 195
 Engelmann, C., 62
 Englard, S., 22
 Englesberg, E., 51
 English, A. R., 390, 423, 424
 English, J. P., 457
 Entner, N., 10
 Ephrussi, B., 63
 Ephrussi-Taylor, H., 64
 Epps, H. M. R., 18
 Erdman, L. W., 194
 Erickson, C. A., 252
 Erickson, J. O., 217
 Erkama, J., 193
 Erlenmeyer, H., 441
 Ernster, L., 7
 Esau, K., 143
 Escher, G. C., 443
 Esmarch, F., 143
 Espinosa, H., 95
 Etchells, J. L., 317, 320, 327,
 329, 331
 Euler, H. von, 447
 Eusebi, A. J., 449
 Evans, D. G., 362, 413
 Evans, E. A., 337, 339
 Evans, J. B., 32
 Evans, R. J., 454
 Evans, W. C., 17

F

Fabergé, A. C., 58
 Fabricant, J., 250
 Fagan, R., 111
 Fagreau, A., 223
 Fahey, R. J., 97
 Fahraeus, G., 83, 84, 191,
 195
 Fahrenheit, M. J., 440, 442,
 444
 Falco, E. A., 420, 445, 451,
 452

- Fales, F. W., 8
 Falkenheim, M., 265
 Farber, E., 457
 Farber, S., 444
 Farquhar, H. G., 294
 Farrell, J. B., 397
 Fasan, D. M., 391, 424
 Fasslittot, G., 155
 Faust, E. C., 394
 Fawcett, G. L., 164
 Fawcett, H. C., 121
 Fazekas de St. Groth, S., 232, 233, 235, 239, 240, 241
 Feder, W. A., 168, 172
 Fedorov, M. V., 190
 Feduchy, E., 327
 Feemster, R. F., 249
 Felgelson, P., 447
 Feldman, H. A., 282, 283, 287, 289, 290, 291, 293, 294, 295
 Feldmesser, J., 155
 Feldott, G., 421, 425
 Felix, A., 362
 Fellows, H., 370
 Feltz, M., 389
 Fenner, F., 263
 Fenwick, D. W., 153, 155, 169
 Fenyvessy, B. von, 304
 Ferdinansen, C., 370
 Ferger, M. F., 454
 Fichter, B., 448
 Field, J. W., 111, 423
 Fieller, E. C., 349, 351
 Fildes, P., 437
 Filipjev, I. N., 151, 152, 153, 154, 162
 Fincham, J. R. S., 62, 66
 Findlay, G. M., 111, 287, 294
 Fine, J., 393
 Finkelstein, M., 453
 Finland, M., 97, 388, 391, 392, 395, 397, 398, 399, 402, 423
 Finlay, A. C., 111
 Finn, J. J., 264, 393
 Finn, R. F., 377
 Finnerty, E. F., Jr., 398
 Finney, D. J., 62, 349, 351, 352
 Fischer, A., 303
 Fisher, S., 242
 Fisher, W. P., 40
 Fitzpatrick, T. B., 449
 Flagler, E. A., 59
 Flanders, T., 87
 Fleishman, R., 302, 312, 415, 429, 430
 Fleming, A., 413, 424
 Fleming, D. S., 217
 Fletcher, A., 398
 Flexner, J. B., 266
 Flexner, L. B., 266
 Fling, M., 15
 Flint, J., 51, 52, 54, 56, 60, 65, 66, 68
 Flippin, H. F., 393
 Florenzano, G., 329
 Florman, A. L., 211
 Flynn, E. H., 440, 442
 Fogg, G. E., 31
 Folch, J., 269
 Foley, E. J., 266
 Foley, G. E., 268, 431, 444
 Folkers, K., 33, 446, 448, 449
 Fong, J., 333
 Fonseca, F., 105
 Foote, F. J., 164
 Forbes, M., 416, 424
 Ford, C. H., 172
 Ford, J. M., 55, 56, 60
 Ford, W. R., 306, 307
 Forsyth, W. G. C., 199
 Foster, C., 268, 271, 456
 Foster, J. W., 13, 32, 33, 382
 Fowler, J. C., 289
 Fox, C. L., Jr., 439
 Fox, J. P., 94, 254, 255, 265
 Fox, S. W., 454
 Fraenkel-Conrat, H., 447
 Fram, H., 57
 Frampton, V. L., 145
 Franca, C., 282
 Francis, G. E., 216
 Francis, J., 429
 Francis, T., 132, 230, 231, 233, 268
 Franco, J. S., 105
 Frank, P. F., 391
 Frankel, J. W., 269
 Franklin, A. L., 440
 Franklin, J. F., 101
 Franklin, M. T., 153, 167, 169
 Fraser, D., 14
 Fraser, L., 172
 Frazier, C. N., 308, 312
 Frederiksen, E., 389
 Frederiksen, H., 166
 Freeman, G., 95
 Freidemann, U., 57, 58
 Freisleben, R., 377
 Freksa, H. F., see Friedrich-Freksa, H.
 French, E. L., 231, 241
 French, R. C., 334, 335
 Frenkel, J. K., 282, 283, 284, 288, 289, 290, 291, 295
 Freund, H. A., 232
 Freund, J., 208, 209, 267
 Freyche, M. J., 99, 103
 Frick, L. P., 103, 104, 109, 395
 Friedberg, C. K., 393, 400
 Frieden, E., 455, 458
 Frieden, E. H., 312
 Friedenreich, V., 80, 235
 Friedman, S., 19, 61
 Friedman, T. B., 211
 Friedrich-Freksa, H., 57, 61
 Friend, C., 453
 Fries, N., 51, 60, 368
 Fruton, J. S., 38, 418, 458
 Fujita, A., 81
 Fukuhara, T. K., 452
 Fuller, A. T., 454
 Fuller, F. W., 394
 Fuller, H. S., 96, 101
 Funder, J. F., 100
 Furst, A., 455, 456
 Fusillo, B. S., 401
 Fusillo, M. H., 391, 395, 423

G

- Gadd, C. H., 161, 169
 Gaddum, J. H., 349, 351
 Gaebler, O. H., 447
 Gallard, J. A., 292
 Gaines, D. S., 419, 443
 Gaines, J. G., 174
 Gainey, P. L., 190, 191
 Gajdusek, D. C., 211
 Galbraith, H., 269
 Gale, E. F., 15, 18, 313, 387, 417, 418, 421, 422
 Galen, W. P., 395
 Gallagher, F. W., 253
 Gaon, J., 96
 Gard, S., 260, 285, 295
 Gardiner, R. C., 443
 Gardner, G., 59
 Garen, A., 333
 Garner, R. L., 4
 Garrard, E. H., 194
 Garrett, S. D., 187, 195, 367, 370, 373
 Garrod, L. P., 400, 426
 Garson, W., 210
 Garst, R. G., 454
 Gary, N., 40
 Garza, H. M., 449
 Gauld, R. L., 100, 109
 Geckler, R. P., 53, 63
 Geiman, Q. M., 299-316, 303, 304, 306
 Gellhorn, A., 453
 Gelperin, A., 303, 312
 Gelwicks, P. C., 423
 Gemmill, G., 355
 Gemzell, C., 266
 Gemzell, L., 266
 Geoghegan, M. J., 199
 Georg, L. K., 33
 George, M., 388
 Georgi, C. E., 24
 Gerlough, T. D., 209
 Germuth, F. G., Jr., 307
 Gerretsen, F. C., 189, 200, 377
 Gershoff, S. N., 457
 Gest, H., 2, 31, 191, 339
 Getting, V. A., 249
 Getzendaner, M. E., 23, 25, 439

- Gezon, H. M., 391, 424
 Ghosh, M., 103
 Gibbard, J., 359, 362
 Gibbs, M., 1
 Gibson, F., 68
 Gibson, M. I., 425
 Gibson, M. J., 68
 Gibson, T., 78, 81, 83, 86, 185
 Giles, G. R., 199
 Giles, N. H., Jr., 62
 Gilfillan, R. F., 21, 448
 Gille, G., 285
 Gillen, A. L., 242
 Gillen, D. H., 341
 Gillespie, J. M., 208
 Gilman, A., 311
 Gilmour, C. M., 198
 Gingrich, C. E., 174
 Gingrich, W. D., 292, 395
 Ginsberg, H. S., 243
 Ginsberg, V., 442
 Girdwood, R. H., 443
 Giroud, P., 101, 105, 292, 294
 Gispén, R., 98, 104
 Giunchi, G., 111, 398
 Gladden, V. E., 443
 Glaser, R. J., 392
 Glazer, H. S., 448
 Gledhill, A. W., 129
 Glenn, J. T., 355
 Glenny, A. T., 351, 354, 356, 359
 Glick, D., 304, 305, 421
 Glover, R. E., 129
 Gobat, Y., 265
 Gocke, T. M., 392, 398, 399, 402, 423
 Godfrey, G. H., 157, 184, 171, 174
 Geobel, W. F., 209, 216, 337
 Goering, H. L., 457
 Goffart, H., 153, 161, 167, 174
 Gold, A. H., 146
 Goldberg, M. W., 447
 Goldblum, N., 258, 261
 Goldin, A., 442, 453
 Goldschmidt, R. B., 62
 Goldthwait, D. A., 443
 Gonick, W. N., 189
 Good, N., 458
 Good, R. A., 222, 223, 392
 Goodey, J. B., 166, 173
 Goodey, T., 151, 152, 162, 166, 167, 172
 Goodgal, S. H., 58
 Goodloe, M. B., 212
 Goodlow, R. J., 37, 67, 68
 Goodman, L., 311
 Goodman, M., 217
 Goodpasture, E. W., 124, 125, 131
 Goodwin, L. G., 426
 Gorbunov, K. V., 190
 Gorden, A. H., 144
 Gordon, M., 439
 Gordon, M. K., 100
 Gordon, R. E., 186
 Goret, P., 124
 Goring, C. A. L., 188
 Gorini, L., 31
 Goss, M. D., 426
 Gosselein, R., 371
 Gosting, L. J., 208
 Gots, J. S., 19
 Gottlieb, D., 42, 197
 Gottschalk, A., 231, 232, 233
 Gottschewski, G., 49
 Gould, C. J., 171
 Gowans, K. D., 164
 Gowen, J. W., 67, 68
 Goyette, L. E., 325
 Goytia, R. S., see Silva Goytia, R.
 Grace, J., 65
 Graham, A. F., 334, 335
 Graham, D. M., 241
 Graham, T. W., 161, 174
 Grannis, G. F., 4
 Grant, T. J., 164
 Grasset, E., 355, 359
 Graves, F. B., 399
 Gray, E., 187, 192
 Graydon, J. J., 354
 Green, H. H., 355
 Green, T. W., 398
 Greenberg, J., 428, 430, 445
 Greenberg, L., 359, 362
 Greenberg, S. M., 34
 Greenblatt, R. B., 396
 Greene, H. S. N., 249, 250, 263
 Greene, M. R., 309, 310
 Greene, R. D., 213, 214
 Greenspan, E. M., 442, 453
 Greenstein, L. M., 265, 266
 Gregg, N. M., 252
 Gregory Kayne, G., 355
 Greiff, D., 266
 Griffith, J. E., 376
 Griffiths, J. J., 362
 Grimm, M. R., 56, 60, 65
 Grisebach, H., 452
 Grjebine, A., 294
 Grocott, R. G., 283, 288, 292
 Gróh, E., 79, 80
 Groos, S. R., 62
 Gross, L., 262
 Gross, P. M., Jr., 208, 209, 221
 Grossbard, E., 197
 Grossberg, D. B., 355
 Grossman, E. J., 394
 Grossowicz, N., 18, 91
 Gruskin, B. J., 399
 Gubler, H. U., 108, 109
 Guimarães, N. F., 288
 Guirard, B. M., 35
 Gunnison, J. B., 399, 400, 401, 402, 403, 426, 427, 430
 Gunsalus, I. C., 1, 2, 12, 18, 23, 35
 Gunter, S. E., 82, 87
 Gurd, F. R. N., 208
 Guthrie, F., 395
 Guthrie, R., 67
 Gutierrez, R. O., 163
 Gutman, A., 342, 343
 Gutman, A. B., 223
 Gutman, E. B., 223
 Gutteridge, N. M., 100
 György, P., 87
 H
 Haan, P. G. de, 417, 418, 431, 439, 440
 Haas, F., 52, 53, 54, 55, 61
 Haas, V. H., 251
 Haasis, F. A., 171
 Haba, G. de la, 60
 Habbu, M. K., 362
 Habel, K., 252
 Haber, A., 391
 Haenseler, C. M., 174
 Hagan, W. A., 287, 294
 Hagedorn, D. J., 146
 Hagemeyer, J. W., 154
 Hahn, E. O., 393
 Hahn, F. E., 92, 417, 422
 Hale, C. M. F., 192
 Hale, F., 38
 Hall, A. N., 10
 Hall, H. E., 111, 392, 394, 396, 398
 Hall, I. F., 445
 Hall, W. H., 395, 400
 Hallauer, C., 132, 230
 Halleck, F. E., 201
 Halteren, M. B. van, 15
 Halvorson, A. R., 188
 Halvorson, H. O., 40, 454
 Hamada, M., 373
 Hamburger, M., 393, 423
 Hamburger, V., 252
 Hamke, H., 398
 Hammon, W. M., 133, 249, 264
 Handley, W. R. C., 372
 Hanig, M., 232, 233, 235, 236
 Hansen, A., 355
 Hansen, P. A., 86
 Hansen, R. G., 213, 214
 Hanson, R. P., 133
 Hard, E. M., 399
 Hardin, M. M., 43
 Harding, H. B., 428
 Harding, R. B., 187
 Harding, W. M., 457
 Hardison, J. R., 168
 Hare, R., 229
 Harford, C. G., 264
 Harington, C. R., 454, 455
 Harley, J. L., 196, 367-86, 367, 369, 373, 374, 375, 376, 377, 378, 379, 380,

- 381, 382
 Harper, G. J., 354
 Harper, H. A., 455, 456
 Harper, J. L., 196
 Harper, O. F., Jr., 41
 Harpur, R. P., 6
 Harrevel, A. van, 265
 Harris, A., 210, 311
 Harris, C. M., 423
 Harris, H. J., 397
 Harris, J. I., 38, 420, 458
 Harris, J. S., 457
 Harris, M. R., 144
 Harris, S. A., 448, 449
 Harrison, J. L., 102, 103, 104
 Harrison, J. S., 458
 Harrison, V. M., 419, 423
 Hartellus, V., 62
 Hartley, P., 211, 215, 350,
 351, 353, 359, 360
 Hartman, L. W., 285
 Hartman, P. E., 24
 Harvey, D. G., 63
 Haslam, N. M., 423
 Hassid, W. Z., 5
 Hassig, A., 224
 Hassinen, J. B., 42
 Hastings, R. J., 161
 Hata, 311
 Hatch, A. B., 373, 375, 378,
 379
 Haurowitz, F., 218
 Hauser, G. H., 249
 Havens, I., 362
 Haviland, J. W., 393
 Havis, A. L., 156, 158, 160,
 170
 Havis, L., 156
 Hawking, F., 311
 Hawkins, V. R., 448
 Hawksley, J. C., 97
 Hawley, W. O., 165
 Hawthorne, D. C., 63
 Hayaishi, O., 17
 Hazen, E. L., 41, 197
 Hazen, L. N., 397
 Hazra, A. K., 355, 359
 Heagy, F. C., 341
 Heathcote, J. G., 457
 Heatherman, M. E., 389, 423
 Heden, C. G., 249
 Hegarty, C. P., 40
 Hehre, E. J., 23
 Heidelberger, M., 208, 209,
 216, 217, 218, 220, 221,
 359
 Heilbronner, R., 458
 Heilig, R., 100
 Hellman, F. R., 394, 396,
 400
 Heinly, H., 177
 Hellstrom, H., 447
 Helms, R., 394
 Hemmings, W. A., 211
 Henderson, L. M., 33, 214
 Henderson, M., 211
 Henderson, R. G., 284, 294
 Hendlin, D., 36, 446
 Henle, G., 268, 344
 Henle, W., 107, 241, 271, 344,
 456
 Henninot, E., 393
 Henriksen, L. D., 84
 Henry, J., 416, 421, 423
 Henry, K. M., 265
 Henry, R. J., 416, 421, 423
 Heotis, J., 24
 Herbs, M., 450
 Hernandez, S., 105
 Herrell, W. E., 394, 397, 400
 Herring, R. D., 67
 Herriott, R. M., 334, 335,
 337, 340, 341
 Hershey, A. D., 334, 335,
 336, 339, 343
 Hervey, A., 186
 Herz, W., 454
 Herzig, A., 109
 Hess, E. L., 209, 212
 Heuser, G. F., 445
 Hewitt, L. F., 79, 80
 Hewitt, R., 415
 Hewitt, W. L., 398
 Heyl, D., 446, 448
 Heyningen, W. E. van, 354
 Higgins, G. M., 443
 Hightower, J. A., 111, 392,
 396, 398
 Hill, E. L., 98
 Hill, J., 441
 Hillegas, A. B., 394
 Hillier, J., 65, 146
 Himmelweit, F., 241
 Himwich, H. E., 265, 272
 Hines, V. D., 98
 Hink, J. H., Jr., 208, 210
 Hirata, S., 144
 Hirschberg, E., 453
 Hirst, G. K., 229, 230, 231,
 232, 233, 235, 236, 239,
 255
 Hitchens, A. P., 121
 Hitchings, G. H., 420, 445,
 451, 452, 453, 454
 Hitomi, H., 456
 Hobby, G. L., 393
 Hobby, G. W., 111
 Hobson, A. C. S., 395
 Hoch, H., 223
 Hochster, R. M., 6
 Hodgson, R., 456
 Hoekenga, M. T., 395
 Hoffman, H., 306
 Hogan, M. J., 290, 291
 Hshne, G., 68
 Hoi, N. P. B., see Buu-Hoi,
 N. P.
 Holben, F. J., 195
 Holden, J. T., 37
 Hollaender, A., 57, 58
 Holland, B. R., 440
 Hollander, D. H., 302
 Holly, F. W., 446, 449
 Holm, J., 355
 Holmes, F. O., 120, 121, 125,
 132, 143, 144, 248
 Holmes, M. A., 105, 106, 107
 Holst, E., 319
 Holt, L. B., 359, 360
 Honing, J. A., 78, 80
 Horecker, B. L., 9, 10
 Horn, N. L., 175
 Hornberger, C. S., Jr., 23,
 35
 Horowitz, N. H., 16, 18, 49,
 458
 Horsfall, F. L., Jr., 230, 231,
 233, 242, 258, 264, 268,
 271
 Horstmann, D., 128
 Horvath, S. M., 265
 Hoshino, H. M., 171
 Hotchkiss, R. D., 64, 313,
 387, 413, 419
 Hottinguer, H., 63
 Houlihan, M. B., 16, 450
 Houser, H. B., 393
 Housewright, R. D., 416, 421,
 423
 How, J. E., 368
 Howe, C., 231, 232
 Howe, H. A., 265
 Howell, E., 49
 Howitt, B. F., 249, 259
 Hoyle, L., 344
 Hoynes, A. L., 394
 Hsu, L. T., 458
 Hu, C. K., 266
 Hubbard, D. E., 456
 Huber, W., 57, 58
 Hudders, M. E., 393
 Huddleston, M. S., 43
 Hudson, N. P., 252, 253, 254
 Hudson, W., 333, 335, 341
 Huebner, R. J., 101, 105,
 106, 107, 111, 264
 Huff, J. W., 450
 Hugentabier, F., 224
 Hughes, J. D., 395
 Hughes, L. E., 100, 101
 Hughes, S. O., 393
 Hughes, W. H., 413
 Hughes, W. L., Jr., 208,
 209
 Hultquist, M. E., 440, 442,
 444
 Human, M. L., 340
 Hummeller, K., 268, 273
 Hungate, R. E., 194
 Hunter, M. E., 65, 413
 Hunter, T. H., 399, 400,
 415
 Hurst, E. W., 267
 Hurst, R. H., 172
 Hurwitz, C., 202, 425
 Hussey, H. H., 402
 Hutchins, L. M., 139,
 140
 Huybers, K., 343
 Hyde, J. E., 265
 Hylander, D. P., 456

I

Imburg, J., 394
 Ing, E. G., 173
 Ingalls, T. H., 252
 Ingraham, S. C., 98
 Ipsen, J., 351, 359
 Irwin, J. O., 349, 351
 Ishai, R. B., see Ben-Ishai, R.
 Ishii, M., 162, 175
 Ito, H., 91
 Ito, T., 110
 Ivanovics, G., 441
 Iwanowski, D., 147
 Iwashige, Y., 398

J

Jackins, H. C., 8
 Jackson, A. V., 100, 131
 Jackson, E. B., 92, 93, 110, 111, 398, 422
 Jackson, E. D., 100
 Jackson, F. W., 249
 Jackson, G. G., 397
 Jackson, J. R., 253
 Jackson, L. W. R., 163
 Jacob, S. W., 393
 Jacobs, F., 343
 Jacobs, L., 285, 289
 Jager, B. V., 207-28, 219, 220, 221, 222, 223
 Jager, L. A., 221
 James, A. P., 68
 Jamieson, W. A., 362
 Jampolsky, L. M., 447
 Janke, A., 194
 Janton, O. H., 107
 Jarpa, A., 293
 Jawetz, E., 399, 400, 401, 402, 403, 426, 427, 430
 Jefferson, W. E., 13
 Jeffries, C. C., 195
 Jeffries, H., 128
 Jegen, H. G., 176
 Jehle, R. A., 170
 Jellison, W. L., 105, 106
 Jenkin, T. J., 166
 Jenkins, D. W., 103
 Jenkins, W. A., 161
 Jensen, C., 356
 Jensen, D., 457
 Jensen, D. D., 146
 Jensen, H. J., 162
 Jensen, H. L., 77-90, 78, 79, 80, 81, 82, 83, 84, 87, 88, 188, 189, 190, 193
 Jensen, J. H., 139-50
 Jensen, K. A., 355, 389
 Jensen, S. O., see Orla-Jensen, S.
 Jepsen, A., 81, 87
 Jerne, N. K., 349-66, 351, 352, 354, 357, 358, 359
 Johns, A. T., 2, 13
 Johns, R. G. S., 223
 Johnson, B. A., 400
 Johnson, C. M., 284, 287, 294
 Johnson, E. M., 161
 Johnson, F. F., 210
 Johnson, F. H., 59
 Johnson, J., 120, 121, 146, 173
 Johnson, L. R., 155
 Johnson, M. J., 387, 430
 Johnson, M. O., 174
 Johnson, R. B., 421, 425
 Johnson, W. J., 6
 Johnston, P. M., 23, 35
 Johnston, S. F., 442
 Johnstone, K. I., 413
 Jollyman, W. H., 40
 Jones, D. P., 174
 Jones, F. E., 285
 Jones, F. G. W., 153, 154
 Jones, H. E., 201
 Jones, H. L., 102
 Jones, J. H., 271, 456
 Jones, L. H., 157
 Jones, M. J., 420, 440
 Jones, M. L., see Llewellyn-Jones, M.
 Jones, P. C. T., 186
 Jones, R. G., 440, 442, 448
 Jones, V. P., 282, 284, 285, 287
 Jones, W. N., see Neilson Jones, W.
 Jordan, D. C., 194
 Jordan, J. V., 190
 Jordan, W. E., 56
 Jordan, W. S., 429
 Jorma, J., 193
 Joseph, A. A., 395, 396, 397
 Josephson, E. S., 430, 445
 Joshi, N. V., 189
 Joslin, B. S., 111, 398
 Jowett, P., 5
 Jude, A., 97
 Jukes, T. H., 22, 440, 442
 Julius, H. W., 411-36, 422, 428
 Junge, W., 167
 Jungleblut, C. W., 230
 Juni, E., 2

K

Kabat, E. A., 207, 208, 209, 210, 212, 213, 218, 221, 222, 223
 Kabat, H., 265
 Kadison, E. R., 400
 Kaft, B. W., 440
 Kahnt, F. W., 208
 Kaila, A., 200
 Kaipainen, W. J., 391
 Kaiser, T. F., 395
 Kajahn, E., 287
 Kalb, J. C., 441
 Kallio, R. E., 18
 Kalnitsky, G., 13
 Kalra, L., 98, 100
 Kaltenbach, J. P., 13
 Kalter, S. S., 263, 268
 Kamen, M. D., 31, 191, 339
 Kamimura, T., 110
 Kane, J. H., 111
 Kane, L. W., 393
 Kaplan, A., 6
 Kaplan, A. S., 261
 Kaplan, N. O., 19, 20, 39
 Kaplan, R. W., 49-76, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61
 Karlin, R., 452
 Karlson, A. G., 422
 Karnofsky, D. A., 443
 Kass, E. H., 289, 291, 398, 399
 Kassel, B., 213, 214
 Katlin, B. W., 51, 52, 54, 60, 65, 66, 68
 Katznelson, H., 195, 197, 367
 Kaucher, M., 269
 Kaudewitz, F., 57, 61
 Kaufman, S., 12
 Kaump, D. H., 288
 Kausche, G. A., 146
 Kaushal, R., 5
 Kawamura, R., 110
 Kayne, G. G., see Gregory Kayne, G.
 Kayser, F., 428
 Kean, B. H., 283, 292
 Kearney, E. B., 22, 271, 449
 Keefer, C. S., 389
 Keith, C. K., 443
 Keith, F., 398
 Keitt, G. W., 55
 Kekwick, R. A., 207
 Kellaway, C. H., 355
 Kelley, A. P., 383
 Kelly, S., 141
 Kelner, A., 58
 Kempe, C. H., 253
 Kendall, F. E., 217, 221
 Kendall, J., 158
 Kendrick, P. L., 362
 KenKnight, G., 140
 Kennedy, E. P., 14
 Kennedy, F. L., 51, 52, 54, 60, 65, 66, 68
 Kennedy, J. W., 339
 Kent, A. M., 452
 Keresztesy, J. C., 39, 442
 Kerr, S. E., 19, 36
 Kersten, H., 376
 Keston, A. S., 216
 Khan, P., 391, 423
 Kiaer, I., 389
 Kibrick, A. C., 222
 Kidder, G. W., 29, 36, 444, 453
 Kierland, R. R., 396, 397
 Kiessling, W., 24
 Kilbourne, E. D., 258, 264, 268, 271
 Kilham, L., 230

- Killough, J. H., 111, 112, 398
 Kimball, R. F., 58
 King, C. T. G., 443
 King, E. J., 41
 King, J. A., 102
 King, J. W., 262, 269
 King, L. S., 258
 King, T. E., 34, 441, 448
 Kingo, S., 249
 Kingsley-Pillers, E. M., 443
 Kinsey, V. E., 301
 Kirby, W. M. M., 387-410,
 389, 391, 393, 400, 402,
 403
 Kirfk, J., 53
 Kirk, R., 306
 Kirkpatrick, H. C., 141
 Kirkwood, J. B., 208, 210,
 211, 213, 218
 Kiseluk, M., 393
 Kisliuk, R., 286
 Kisskalt, K., 78
 Kissling, R. E., 255, 259
 Kitaoka, M., 109
 Kitchen, D. K., 389
 Kjølgaard, N., 342
 Klatchko, H. J., 282, 285
 Kleczkowska, J., 66, 193
 Klein, H. P., 4, 30, 65
 Kleinschmidt, E., 458
 Kleinzeller, A., 455
 Kleneberger-Nobel, E., 64
 Klügler, I. J., 254, 255
 Kline, I. T., 442
 Klinkowski, M., 143
 Klostermeyer, E. C., 143
 Klotz, L. J., 171
 Kluyver, A. J., 77, 80, 81, 85
 Knaub, V., 218
 Knight, B. C. J. G., 84
 Knight, C. A., 458
 Knight, V., 392, 393, 395,
 400
 Knoch, N., 65
 Knowelden, J., 362
 Knowlton, K., 337
 Knox, G. A., 38
 Koblick, D. C., 216
 Koch, A. L., 339
 Koch, F. C., 265
 Kocher, V., 441
 Kodama, T., 81
 Kohlmeier, E. F., Jr., 2
 Kohls, G. M., 96, 97, 98, 99,
 103
 Kohn, H. I., 457
 Kohn, P. M., 395
 Kohncke, K. H., 441
 Kolpin, R., 153, 154
 Komai, T., 62
 Kon, S. K., 265
 König, H., 65
 Konishi, C., 192
 Konivsky, F., 446
 Koprrowski, H., 254, 255, 256,
 258, 264, 268, 271
 Korkes, S., 12
 Kornberg, A., 12, 19
 Kornberg, H. A., 33
 Kornfeld, E. C., 448
 Korte, F., 441
 Korte, I., 441
 Kostoff, D., 158
 Kostrzewski, J., 97, 108, 109
 Kotte, W., 166
 Kotthoff, P., 166
 Kottö, I. A., see Andersson-
 Kottö, I.
 Kozloff, L. M., 334, 337, 339,
 340
 Kraft, L. M., 264
 Kraft, M., 67, 68
 Krag Andersen, E., 362
 Kramer, I. R. H., 413
 Kramer, P. J., 380, 381
 Krasilnikov, N. A., 78, 87,
 196
 Kraus, R., 356
 Kream, J., 453
 Krebs, E. G., 8
 Krebs, H. A., 84, 301
 Kreger-van Rij, N. J. W.,
 317, 318, 319, 320, 321,
 322, 323, 325, 330
 Krehl, W. A., 29, 38
 Kreutzer, W. A., 144, 174
 Krimsky, K., 265
 Krishnan, K. V., 103
 Krontovskaja, M. K., 94
 Krueger, R. C., 217, 218
 Kubie, G., 455
 Kubota, K., 359
 Kulka, D., 10
 Kumano, T., 91
 Kunkel, H. G., 222, 223
 Kuntz, A., 266
 Kunz, L. J., 261, 263, 273
 Kuroiwa, K., 249
 Kurokawa, M., 359
 Kusano, S., 373
 Kuwata, T., 102

 L
 Labaw, L. W., 339, 340
 Lacerda, M. T., 105
 Lackman, D. B., 91, 99, 100,
 105
 Lacroix, L. M., see Molho-
 Lacroix, L.
 Laemmert, H. W., Jr., 254,
 255, 269
 Lafont, J., 397
 Lahiri, D. C., 355, 359
 Laird, R. L., 395
 Laird Myers, W. P., 443
 Lajudie, J., 201
 Lahelle, O., 230
 Lambert, E. B., 166
 Lambooy, J. P., 449
 Lammerts, W. E., 174
 Lampen, J. O., 4, 5, 18, 19,
 440, 457
 Landerkin, G. B., 198
 Landman, G. S., 396
 Lane, J., 431
 Langerijt, J. van de, 417, 440
 Langeron, M., 326
 Langworthy, O. R., 272
 Lanni, F., 231
 Lansford, E. M., Jr., 448
 Lansford, M., 440, 442
 Lapresle, C., 219
 Lara, F. S., 84
 Lardy, H. A., 421, 425
 Larsen, H., 13
 Larson, R. H., 146
 Lascelles, J., 440
 Lassek, A. M., 266
 Latarjet, R., 53, 54, 55, 56,
 57, 59, 343
 Launer, H. F., 447
 Laustov, O., 318
 Laveran, A., 282, 288
 Law, L. W., 443
 Lazovskaya, L. N., 265, 266
 Leach, R., 368, 371
 Leake, J. P., 249
 Lear, B., 174
 LeBeau, L., 219
 Lebron, L. A., see Pomalez
 Lebron, A.
 Lechevalier, M., 198
 Lecoq, E., 424, 425, 431
 Lederberg, J., 49, 50, 61,
 62, 343
 Ledingham, J. C. G., 124
 Leeman, A., 108, 109
 Lees, H., 188
 LeGac, P., 101
 Lehman, K. B., 77
 Lehner, A., 191
 Leidy, G., 64
 Leigh, C. H., 52
 Leiper, R. T., 173
 Leissner, G. N., see
 Nilsson-Leissner, G.
 Leloir, L. F., 4, 6
 Lenert, T. F., 393
 Lennette, E. H., 105, 106,
 107, 110, 258, 264, 268,
 271, 396, 398
 Leonard, C. S., 311
 Lepine, P., 124, 285, 287
 Lepper, M., 389, 393, 397,
 402
 Lerman, L. S., 212
 LeRoux, J. E., 163
 Lesch, W., 191
 Lesley, S. M., 334, 335
 Lester Smith, E., 387
 Leuckel, R. W., 168
 Leupold, U., 62, 331
 Levaditi, C., 124, 285, 287,
 311
 Levens, J. H., 230
 Lever, W. F., 208
 Levine, L., 359
 Levine, M., 457
 Lewis, J. D., 454
 Lewis, S. M., 14, 31, 192

- Lewis, S. M., 14, 31, 192
 Lewthwaite, R., 109, 111,
 112, 392, 398
 Ley, A. C., 92, 93, 422
 Ley, H. L., Jr., 92, 111, 112,
 392, 395, 398
 Ley, J. de, 10, 40
 Leyton, L., 372
 Libby, R. L., 439
 Lichstein, H. C., 1-28, 3, 18,
 21, 22, 23, 40, 271, 448
 Lichtenstein, N., 455
 Lichtenstein, S., 37
 Lichtman, H., 442
 Lieb, M., 51, 55, 57, 60
 Lieberman, J. E., 362
 Liebl, G. J., 265
 Liebowitz, D., 396
 Liebscher, G., 153
 Lighdown, J. W., 421
 Lillie, R. D., 282, 283
 Lilly, V. G., 41
 Limasset, P., 123, 135
 Limber, D. P., 172
 Lind, P., 355
 Lind, P. E., 230, 231, 232,
 235, 236, 344
 Lindau, G., 144
 Lindberg, O., 7
 Lindeberg, G., 368, 369
 Lindgren, C. C., 62, 63, 65,
 318
 Lindegren, G., 62, 318
 Lindner, R. C., 141
 Lindstrom, E. S., 14, 31, 191,
 192
 Linford, M. B., 162, 169, 175
 Linggood, F. V., 355
 Linkola, H., 193
 Linnaasalmi, A., 193
 Linnman, N., 166
 Linstead, R. P., 17
 Linz, R., 67, 414, 424, 425,
 431
 Lipmann, F., 21
 Little, P. A., 43, 307
 Littman, M. W., 395
 Liu, C. H., 208
 Liu, O. L., 344
 Liu, W. T., 95, 98
 Livesay, H. R., 97
 Ljupsa, F., 96, 104
 Liao, S. J., 29
 Llewellyn-Jones, M., 356
 Llewellyn Smith, M., 354,
 355, 359
 Lloyd, W., 267
 Lochhead, A. G., 32, 36, 78,
 80, 84, 185-206, 185, 186,
 187, 195, 196, 198, 367
 Lock, J. A., 430
 Lodder, J., 317, 318, 319,
 320, 321, 322, 323, 325,
 330
 Lodowski, C. H., 285
 Loeb, L. H., 392
 Loewe, L., 400
 Lofgren, R., 304
 Løfgren, S., 211
 Lojkin, M. E., 144
 Long, C. L., 35
 Long, D. A., 355
 Long, P. H., 111, 389
 Long, R. T., 420, 424
 Longworth, L. G., 207, 211
 Loomis, W. F., 93, 391
 Lopez, C. V., 171
 Loss, C. A., 161, 169
 Loughlin, E. H., 395, 396,
 397
 Loveless, A., 53
 Lovell, R., 83
 Lownsbery, B. F., 165, 169
 Lubatti, O. F., 172
 Ludwig, E. H., 87
 Luescher, E., 212
 Luippold, G. F., 362
 Lundgren, H. P., 212, 213,
 216
 Luoto, L., 106, 111
 Luria, S. E., 51, 333, 335,
 340, 344, 345, 346
 Lurie, H. I., 31
 Lush, D., 131, 132, 230
 Lutteraan, P.-J., 326
 Lutz, A., 441
 Luz, E., 448
 Lwoff, A., 64, 303, 342, 343
 Lyman, C. M., 36
 Lynch, D. L., 194
 Lynch, F. W., 252
 Lyons, H. A., 399
 Lyons, J. E., 413
 Lytle, V. L., 23, 35
- M
- Maaløe, O., 339, 345, 349-66,
 359
 Maas, W. K., 61, 66
 Maass, E. A., 387, 430
 McAllister, J., 285, 289
 McArthur, N. R., 236
 McAulay, A. L., 55, 56, 60
 McBee, R. H., 194, 195
 McBeth, C. W., 174
 McCalla, T. M., 198, 200
 McCance, R. A., 265
 Macchiavello, A., 249
 McClellan, V., 223
 McClellan, W. D., 175
 McClelland, L., 229
 McClung, L., 326
 McComb, A. L., 369, 376
 McCoy, E., 390, 423, 424
 McCracken, J. P., 399
 McCrea, J. F., 231, 232, 233,
 235, 236
 McCready, C. C., 379, 380,
 381
 McCrumb, F. R., 394
 McDermott, E. E., 457
 McDermott, W., 392
 Macdonald, A., 282, 288
 Macdonald, K. D., 51
 MacDougal, D. T., 371
 McElroy, W. D., 55, 56, 58,
 60, 61
 MacFarlane, A. S., 131
 MacFarlane, J. O., 284, 285,
 288, 289
 McGahan, J. W., 198
 McGlohan, V. M., 448
 McGregor, J., 66, 390, 423
 Machmer, J. H., 173
 McKee, R. K., 53, 58
 McKee, R. W., 303, 304, 306
 McKennis, H., Jr., 454
 McKinney, H. H., 122
 McKnight, T., 189
 MacLachlan, D. S., 41
 McLaren, A. D., 458
 McLean, J. G., 144
 McLean, J. W., Jr., 394
 McLeod, C., 210
 MacLeod, C. M., 217
 MacLeod, G., 265
 MacLeod, R. A., 9, 32
 McMahan, E., 155
 McMahan, K. J., 190
 McManus, D., 331
 McManus, D. K., 31
 McManus, I. R., 13
 Macow, J., 438, 441
 McRorie, R. A., 35, 447
 McVay, L. V., 395
 McVeigh, I., 37
 McVickar, D. L., 42
 McWhorter, F. P., 147
 Macy, I. G., 269
 Maddy, K. H., 271
 Madsen, T., 356
 Magalhães, O. de, 99, 112
 Magasanik, B., 36
 Magill, G. B., 111, 112, 398
 Magni, G. E., 58
 Magnus, H. von, 260, 264,
 272
 Magnus, P. von, 255, 260
 Magnus, R. von, 81, 87
 Magnuson, H. J., 210, 302,
 312
 Magnusson, J. H., 285, 292,
 295
 Magoffin, R. L., 390, 400,
 430
 Magrou, J., 41, 367
 Mahoney, J. F., 311
 Maki, T., 318
 Makstenieks, O., 289, 291,
 293, 295
 Malin, R. B., 38, 39
 Maliszewska, W., 189
 Malloch, W. L., 158
 Malmnäs, C., 211
 Mandel, B., 260, 269
 Mandelbaum, R. A., 96, 97
 Mangiaracins, A., 397
 Mankiker, D. S., 395
 Mann, H. J., 442
 Mann, J. G. de, 151

- Manning, I. H., 397
 Manninger, R., 64
 Manso Sato, A. E., 98
 Manson, L. A., 18
 Mantz, F. A., Jr., 288, 292
 Manwell, R. D., 282, 284, 285, 287
 Marchionatto, J. B., 163
 Marcilla, J., 327
 Marco, P. R., 166
 Mariat, F., 41
 Mariotte, C. O., see Ortiz Mariotte, C.
 Markham, F. S., 252, 254
 Marks, H. P., 349, 351
 Marmell, M., 395, 396
 Marmion, B. P., 105
 Marmoston, J., 264, 267
 Marmur, J., 5
 Marnay, C., 455
 Marneffe, H., 41
 Marrack, J. R., 218, 223
 Marrian, D. H., 169
 Marrow, C. T., 397
 Marshak, A., 65, 337
 Marshall, P. B., 303, 305
 Marti, H. R., 108
 Martin, A. E., 188
 Martin, A. J. P., 144
 Martin, F. L., 57, 58
 Martin, G. J., 446, 454
 Martin, J. P., 187
 Martin, L., 62
 Martinez, E., 392
 Marullaz, M., 282, 288
 Masley, P. M., 447
 Masouredis, S. P., 216
 Massart, L., 425
 Masu, S., 91
 Masuda, K., 51, 68
 Mather, H. N., 362
 Matteucci, W. V., 392, 393
 Matthews, D. J., 174
 Matthews, R. E. F., 146
 Maurice, H., 362
 Maxcy, K. F., 102
 May, M., 440, 442
 Mayer, M. M., 207, 215, 216, 218, 307, 309
 Mayer, R. L., 424
 Mayo, H., 252
 Mayr, E., 135
 Mead, D. D., 67
 Meads, M., 423
 Meath, J. A., 269
 Mefferd, R. B., Jr., 53, 56, 58
 Meiklejohn, G., 110, 396, 398, 399
 Meiklejohn, J., 188
 Meinke, W. W., 440
 Meister, A., 18
 Melcher, L. H., 216
 Meloney, F. L., 400
 Melin, E., 368, 369, 372, 379, 382
 Melin, M., 208, 209, 221
 Melnick, D., 34
 Melnick, J. L., 258, 261, 264
 Melton, M. L., 289
 Melvin, S., 454
 Meneghini, M., 145
 Menzel, R., 163
 Mercer, F. L., 452
 Merchant, J. A., 81, 83
 Mercier, P., 359
 Merideth, A. M., 394
 Merriam, H. J., 389
 Mesnil, F., 282, 294
 Meutznier, I., 59
 Meyer, K. F., 129, 259, 396
 Meyer, N. C., 51, 52, 54, 60, 65, 66, 68
 Meyerhof, O., 6, 24
 Michel, J. C., 393
 Micoletzky, H., 152
 Middleton, A. D., 287, 294
 Mika, L. A., 37, 67, 68
 Mikola, P., 368, 369, 370, 378
 Miles, A. A., 351, 352, 355, 359, 363
 Miles, C. P., 400
 Miles, H. W., 154
 Militzer, W., 24
 Miller, A. K., 440
 Miller, C. P., 413
 Miller, D., 339
 Miller, E. J., 458
 Miller, G. L., 255, 265
 Miller, H., 55, 56, 58
 Miller, H. C., 252
 Miller, H. K., 458
 Miller, J. B., 425
 Miller, J. C., 92, 93, 110, 111
 Miller, J. W., 394
 Miller, L. C., 349, 355
 Miller, P. W., 142
 Miller, R. E., 9
 Miller, V. L., 171
 Mills, K. C., 230, 242
 Milne, J., 399
 Mims, J. L., Jr., 398
 Minck, A., 64
 Minck, R., 64
 Mingioli, E. S., 66
 Mingoja, Q., 291
 Minnich, V., 443
 Minor, J. V., Jr., 111, 112, 394, 398
 Minuse, E., 230
 Mirick, G. S., 268
 Misani, F., 457
 Mishustin, E. N., 200
 Mitchell, H. H., 265
 Mitchell, H. K., 16, 49, 440, 450, 454, 458
 Mitchell, H. L., 377
 Mitchell, J. A., 65
 Mitchell, J. H., Jr., 443, 453
 Mitchell, P., 418, 421
 Mitchell, R. B., 79
 Mitchell, R. F., 235
 Mitsui, Y., 398
 Mittleman, D., 208
 Mittwoch, U., 62
 Modess, O., 369, 371
 Modest, E. J., 444
 Modrone, L. V. di, see Visconti di Modrone, L.
 Modrone, N. V. di, see Visconti di Modrone, N.
 Moersch, G. W., 456
 Moewus, F., 60, 62
 Moldave, K., 457
 Molho, D., 456
 Molho-Lacroix, L., 456
 Molina, J. S., 199
 Moll, F. C., 393
 Möller, S., 355
 Mollison, J. E., 186
 Molnar, D. M., 190
 Molomut, N., 391
 Monlux, W. S., 287, 294
 Monnier, J. J., 389, 392
 Monod, J., 49, 67
 Montagne, J. T. W., 174
 Moog, F., 265
 Moore, A. C., 456
 Moore, A. E., 453
 Moore, A. M., 217
 Moore, B., 252
 Moore, C. V., 443
 Moore, D. H., 207, 210, 221, 223
 Moore, J., 79
 Moore, J. A., 448
 Moore, M., 414, 431
 Mooser, H., 95, 96, 98, 108, 109, 287
 Moran, T., 457
 Morgan, H. R., 97, 230
 Morgan, I. M., 259, 267
 Morgenroth, J., 356
 Morison, J. E., 293, 294
 Morlan, H. B., 98
 Moro, E., 269
 Morrell, C. A., 359, 362
 Morris, E. O., 65
 Morris, F. D., 455
 Morris, H. P., 449
 Morris, M. D., 456
 Morrison, G. A., 7
 Mortensen, R., 153, 154
 Morton, H. E., 38
 Mosbach, E. H., 12
 Moseley, O., 38
 Moses, S. H., 249
 Moshkovsky, S., 125, 129
 Mosing, H., 108, 109
 Mosley, F. O., 172
 Mosley, V. M., 340
 Moss, J. N., 446, 454
 Most, H., 394
 Moussatche, J., 269
 Mouton, R. F., 208
 Mowat, J. H., 444
 Moyer, E. Z., 269
 Moyle, J., 418, 421
 Mozingo, R., 449

AUTHOR INDEX

479

Mrak, E. M., 324, 326
Mudd, S., 24, 50, 65, 304, 413
Mueller, H. J., 36
Mueller, J. F., 448
Mueller, J. H., 37, 82, 84
Muething, D., 393
Mühlpfordt, H., 290, 295
Mulder, E. G., 190, 193, 200
Mule, F., 288
Mulford, D. J., 208, 209
Mulligan, F. W., 216
Mullin, W. G., 395
Mündel, F., 82, 84
Mundkur, B. D., 63
Munoz, J., 219
Murata, R., 359
Murlin, J. R., 265
Murphy, J. S., 268
Murray, A. Z., 265, 266
Murray, E. G., 121
Murray, E. S., 95, 96, 97, 101, 102, 104
Murray, J. P., 221
Murray, R. G. E., 341
Murray, T. J., 30
Musselman, A. D., 312, 388, 401, 414, 415, 429, 430
Muth, O. H., 168
Myers, W. P. L., see Laird
Myers, W. P.
Mylroie, A., 53

N

Nagakura, K., 157
Nagler, F. P. O., 131, 230, 242
Naidu, V. R., 100
Nakamura, H., 51, 65, 68
Nakamura, R., 110
Nakano, T., 359
Nanney, D. L., 62
Nason, A., 19, 20, 39
Neal, A. L., 34
Needham, J. T., 151
Neghme, A., 293
Neilson Jones, W., 369, 372
Neish, A. C., 30
Neisser, M., 354
Nelson, F. E., 23, 40
Nelson, R. A., Jr., 305, 306, 307, 308, 309, 312
Nelson, T. C., 61
Nemes, J. L., 42
Neogy, K. N., 103
Neppie, H. M., 36
Neumann, R. O., 77
Neurath, H., 217
Neve, F. A., 97
Neve, R. A., 456
Newcombe, H. B., 53, 56, 57, 58, 60, 62, 66, 390, 423
Newhall, A. G., 173
Newman, A. S., 200, 201
Newton, M. A., 453
Nichol, C. A., 442

Nichol, J. C., 208, 209, 212, 222
Nicholas, L., 306, 307
Nichols, A. C., 400
Nickerson, M., 221, 222
Nickie, A., 265
Nicolau, S., 282, 284, 287, 289, 294
Niel, C. B. van, 77, 81, 85
Nielsen, E. J., 389
Niemann, C., 454
Nigg, C., 229
Nilsson, F., 166
Nilsson, H., 379, 382
Nilsson, P. E., 196
Nilsson, R., 191
Nilsson-Leissner, G., 166
Nishigaki, S., 192
Nissen, K. I., 249
Niven, C. F., Jr., 32
Niven, J. S. F., 129
Nobel, E. K., see Kleneberger-Nobel, E.
Noble, M., 166
Nobrega, P., 291
Nögrádi, A., 64
Noguchi, H., 305, 306
Noka, S., 249
Norkrans, B., 368, 369, 370
Norman, A., 57
Norris, E. R., 453
Norris, F. W., 42
Norris, L. C., 445
Norris, R. F., 87
North, E. A., 242
Northam, B. E., 42
Northrop, J. H., 209, 216, 335, 341, 342
Norton, S., 217
Nossal, P. M., 1, 20
Novak, R., 190
Novelli, G. D., 21
Novick, A., 49, 51, 52, 59, 67, 68, 336
Nurmikko, V., 39
Nutman, P. S., 194
Nyberg, C., 79, 80
Nyc, J. F., 450
Nygaard, A. P., 33, 43
Nyholm, M. H., 53, 62
Nyman, B., 368

O

Oberstein, M., 362
Ochoa, S., 11, 12, 389
Oelrichs, L., 108
Oginsky, E. L., 11, 22, 389, 390, 415, 416, 422, 423, 424
Ohlmeyer, P., 6
O'Kane, D. J., 23, 35
Olafson, P., 287, 294
Olansky, S., 396
O'Leary, J. L., 258
O'Leary, P. A., 396, 397
Oleson, J. J., 33, 43, 93, 391,

415
Oliphant, J. W., 99, 264, 269
Ollitsky, P. K., 230, 256, 259, 260, 261, 263, 264, 267, 268, 269, 271, 272, 273, 282, 285, 289
Oliveira, J., 105, 157
Oliveira, J. M., 162, 175
Olsen, E., 77, 87
Oncley, J. L., 208, 209, 212, 213, 221
Oortwijn Botjes, J. G., 143
Oostenbrink, M., 153, 155
Opatowski, J., 50
Ordal, E., 40
Orla-Jensen, S., 77, 81, 83, 87
Ormerod, W. E., 414, 416, 419, 426
Ormsbee, R. A., 91, 92, 93, 106, 111, 306, 398
Orr, W., 394
Ørskov, J., 78, 79, 80, 81, 87, 88, 267, 362
Ortiz Mariotte, C., 95
Oster, G., 146
Ötani, K., 51, 65, 68
Oteifa, B. A., 157, 160, 170
Otten, E., 287
Ouchterlony, O., 219
Oudin, J., 219
Overman, J. R., 271, 272
Owades, P., 458
Owen, C. A., 422
Owen, R. D., 145
Owens, J. V., 165

P

Pace, J., 457
Pagano, J. F., 391, 423
Page, L. A., 67
Paige, B. H., 281, 282, 287, 292
Paillot, A., 125
Paine, T. F., Jr., 15, 388, 423
Pakes, W. C. C., 40
Paladini, A. C., 4
Palleres, E. S., 449
Pán, S. Y., 111
Pansy, F. E., 391, 423
Pant, M. C., 189
Panton, P. N., 354
Panum, P. L., 249
Pappenfort, R. B., Jr., 397
Pappenheimer, A. M., Jr., 210, 212, 213, 216, 219, 261, 263, 264, 273, 358
Pardee, A. B., 338
Paredes, E. M., 395
Parish, H. J., 355
Parker, R. E., 269
Parker, R. P., 440, 442
Parker, R. R., 99, 100, 105, 106
Parker, R. T., 111, 392, 398

- Parks, R. E., 36, 444, 453
 Parris, G. K., 170
 Parry, H. J., 211
 Parter, J. S., 172
 Pasqualin, R., 291
 Pasternak, V. Z., 9
 Patterson, C. N., 397
 Paul, J. R., 258
 Paul, J. S., 395
 Pauli, M., 393
 Pavlevic, R., 96
 Payne, E. H., 397
 Pearce, J. M., 265
 Pearce, L., 266
 Pearce, T. W., 42
 Pearson, H. E., 254, 265, 266, 452, 457
 Peart, A. F. W., 249
 Pechet, M. M., 444
 Peck, G. A., 399
 Peck, R. L., 33, 413, 446
 Pedersen, K. O., 213
 Peel, E. W., 449
 Peers, J. H., 264
 Pelcar, M. J., 42, 82, 84
 Pelon, A., 265
 Pembroke, R. H., Jr., 211
 Pennington, D., 8, 36
 Perez, G. F., 105
 Perla, D., 264, 267
 Perrin, T. L., 284, 287, 294
 Perry, V. G., 165
 Perry, W. D., 403
 Perry, W. L. M., 309, 349, 355
 Peterjohn, H. R., 5
 Petermann, M. L., 212
 Peters, I. I., 23, 40
 Peters, J. P., 301
 Peters, V. J., 448
 Peterson, W. H., 35, 456
 Pethica, B. A., 190
 Petre, A. W., 145
 Petrie, G. F., 359
 Pfankuch, E., 146
 Pfiffner, J. J., 446
 Phaff, H. J., 324
 Phares, E. F., 12, 13
 Philip, C. B., 91-118, 98, 100, 101, 102, 103, 104, 105, 106, 109, 110, 129
 Phillips, P. H., 213, 214, 454
 Pickels, E. G., 242
 Pickens, E. G., 91, 92, 99, 111, 287, 294, 398
 Piekarski, G., 65
 Pijper, A., 99
 Pikoyskaja, R. I., 200
 Pitula, D., 393
 Pillemmer, L., 355
 Pillers, E. M. K., see Kingsley-Pillers, E. M.
 Pillet, J., 359
 Pinkerton, H., 271, 283, 284, 294
 Pinnert, S., 427
 Pino, F., 293
 Pinsky, E., 63
 Pinsky, M. J., 14, 31, 40, 192
 Pinto, M. R., 105, 263
 Pittman, M., 362
 Place, E. H., 397
 Plass, B. A., 271
 Plaut, A., 292
 Plescia, O. J., 208
 Pietneff, P., 98
 Plotz, H., 95, 99, 100, 265
 Plough, H. H., 56, 60, 65
 Po, L. Y., see Yuan-Po, L.
 Pochon, J., 190, 191, 194, 201
 Pohland, A., 440, 442
 Poltrot, R., 107
 Polevitzky, K., 304
 Pollard, M., 97
 Pomalez Lebron, A., 97, 98
 Pomper, S., 331
 Pond, W. L., 271
 Pondalal, K. M., 388
 Pontecorvo, G., 51, 62, 66
 Poole, R. F., 158
 Pope, A., 269
 Pope, C. G., 356
 Pope, H., 420, 447, 454
 Porter, J. R., 303
 Porter, R. R., 215, 216
 Post, K., 173
 Postgate, J. R., 30
 Potash, L., 101, 102
 Potter, R. L., 213, 214
 Potter, V. R., 265
 Pouchol, J., 428
 Poulsen, J. P. V., 81, 83
 Powell, A. M., 111, 112, 398
 Powell, D., 33
 Powell, E. O., 42
 Powell, H. M., 362
 Pralada Rao, L. S., 53
 Pramer, D., 30, 197
 Prather, G. W., 394
 Pratt, R., 59, 313, 421, 428, 430
 Preer, J. R., 62
 Preisser, W., 394
 Pressman, D., 212
 Prevot, A. R., 87, 194
 Price, A. H., 389
 Price, S. A., 354
 Price, W. H., 333-48, 336, 337, 338, 341
 Pricer, W. E., Jr., 12, 19
 Prigal, S. J., 391
 Prigge, R., 359, 362
 Prigot, A., 395
 Prine, J. H., 395
 Pringle, A., 446
 Pritikin, R. L., 398
 Proctor, B. E., 57
 Proffitt, J. E., 109
 Prokoshchev, V. N., 200
 Proom, H., 84
 Proom, H. J., 354
 Pshenichnov, A. W., 95
 Psorn, T., 96
 Puck, T. T., 333
 Pullman, M. E., 447
 Purchase, H. G., 193
 Putnam, F. W., 333, 334, 337, 339
 Pye, J., 232
- Q
- Quanjier, H. M., 143
 Quastel, J. H., 6, 188
 Quilligan, J. J., 230
- R
- Rabinowitz, E., 91
 Rabinowitz, J. C., 33, 449
 Rackar, E., 5, 8, 265, 340
 Rafalko, M. M., 65
 Rafelson, M. E., Jr., 266, 452
 Raff, R. N., 337
 Raghavachari, K., 283
 Ragonesi, A. E., 166
 Rahn, O., 431
 Rainbow, C., 418
 Raistrick, H., 169
 Rake, G., 125, 128, 129, 132
 Raleigh, G. W., 428, 441
 Ramasarma, G. B., 37
 Rammelkamp, C. H., Jr., 393
 Ramon, G., 359
 Ranganathan, G., 448
 Ransom, S. E., 106
 Ranta, L. E., 362
 Ranzoni, F. V., 33
 Rao, K. N. A., 98, 100
 Rao, L. S. P., see Pralada Rao, L. S.
 Raper, K. B., 42
 Rapkine, S., 343
 Rapp, H. J., 215
 Rappaport, I., 395
 Rappoport, D. A., 5
 Rasch, G., 351, 352
 Raschba, J. J., 265
 Raski, D. J., 154, 175
 Rasmussen, A. F., Jr., 271, 456
 Rasmussen, G. L., 266
 Rasmusson, J., 191
 Raut, C., 67
 Ravel, J. M., 439, 440, 442
 Ravelo, A., 282, 289
 Ravin, A. W., 65
 Rawlins, T. E., 145
 Ray, A. P., 430
 Ray, H. N., 283
 Rayner, M. C., 368, 369, 372, 377
 Reagan, R. L., 99, 100
 Reames, H. R., 258
 Reardon, L. V., 394
 Rebstock, M. C., 456
 Record, B. R., 207
 Redaelli, P., 325

- Reed, L. J., 23, 35
 Rees, R. J. W., 427, 428
 Reese, A. B., 252
 Reeves, R. L., 393
 Reeves, W. C., 249
 Regan, F. C., 395
 Regan, M., 440
 Regna, P., 111
 Regnery, D. C., 62
 Rein, C. R., 389
 Reiner, J. M., 265
 Reiner, L., 457
 Reischer, H. E., 31
 Reischer, H. S., 32
 Rennella, E., 310
 Renoux, G., 428
 Rensch, B., 161, 169
 Ressonovsky, N. W. T., see
 Timofeef-Ressonovsky,
 N. W.
 Resühr, B., 140
 Reuszer, H. W., 189
 Revell, S., 53
 Reynolds, F. D., see Duran-
 Reynolds, F.
 Rhoads, C. P., 443
 Rich, S., 147
 Richards, A. J., 269
 Richards, G. S., 41
 Richardson, S., 261, 263,
 273
 Richer, A. C., 195
 Richert, D. A., 208, 209, 221
 Richeson, E. M., 428, 445
 Richou, R., 359
 Rickard, E. R., 97, 98
 Ricker, A. J., 456
 Riebeling, R., 395
 Riff, E. R., 394
 Rij, N. J. W. K. van, see
 Kreger-van Rij, N. J. W.
 Rio-Estrada, C. del, 22
 Riordan, J. T., 258
 Ris, H., 94
 Rishbeth, J., 370
 Rittenberg, S. C., 13
 Ritter, E. de, 447
 Rivera, R. D., see Dias-
 Rivera, R.
 Rizet, G., 62, 64
 Robbins, F. C., 110
 Robbins, W. C., 399, 400
 Robbins, W. J., 186
 Roberts, C., 49, 62, 63, 326
 Roberts, E., 37
 Roberts, E. L., 439
 Roberts, E. R., 190
 Roberts, F. M., 123
 Roberts, I. Z., 10
 Roberts, M., 452
 Roberts, P. W., 387, 431
 Roberts, R. B., 54
 Robertson, W. van B., 449
 Robin, E. D., 396, 401
 Robinson, C. F., 304
 Robinson, A. R., 232
 Robinson, E. S., 358
 Robinson, H. M., 395, 396
 Robinson, H. M., Jr., 395,
 396
 Robinson, R. C. V., 395, 396
 Roblin, M., 359, 362
 Roblin, R. O., Jr., 457
 Robson, J. M., 427, 428
 Rochlin, E., 143
 Rodaniche, A., 99
 Rodhain, J., 283, 288
 Rodrigues, P. M., 99
 Rodwell, A. W., 417
 Roegner, F. R., 58
 Roemer, T., 170
 Roepke, R. R., 439, 440
 Rogers, L. L., 440, 442
 Rogoso, M., 65
 Rolinson, G. N., 20
 Roman, H., 63
 Romansky, M. J., 391, 396,
 401, 423
 Romell, L. G., 370
 Romer, M. S., 105, 106, 107
 Rooyen, C. F. van, 334, 335
 Roper, J. A., 50, 51, 62
 Rosahn, P. D., 266
 Rosano, C. L., 42, 447
 Rose, H., 241, 242
 Rose, H. M., 101, 102, 111,
 398
 Rosembliit, A., 198
 Rosenbaum, R. M., 443
 Rosenberg, W. A., 398
 Rosenblum, E. D., 14, 15, 31,
 191
 Rosendahl, R. L., 377
 Rosendahl, R. O., 369
 Rosenfeld, W. D., 309
 Rosenthal, N., 96, 97
 Ross, H. E., 351, 359
 Ross, S., 394
 Roth, B., 440, 442, 444
 Roth, W., 441
 Rothen, A., 216
 Rotman, R., 339, 343
 Rouatt, J. W., 198
 Roulet, M. A., 33, 186
 Rountree, P. M., 343, 354
 Roush, H., 463
 Routien, J. B., 111, 322, 380,
 382
 Roux, E., 356
 Roux, J., 428
 Rowatt, E., 1
 Rowlands, W. T., 211
 Rowley, D., 387, 431
 Rowold, E., 442
 Roy, B. K. G., 103
 Rozadowska, D. M., 388
 Rubbo, S. D., 425
 Rubin, B. A., 51, 57, 66
 Rubin, S. H., 34, 447
 Rubinstein, L., 253
 Ruchman, O., 284, 285, 288,
 289
 Ruiz-Sanchez, A., 392, 393
 Ruiz-Sanchez, F., 392, 393,
 395, 398
 Rundles, R. W., 223
 Ruska, H., 131, 146
 Rusoff, I. I., 265
 Russ, S. B., 128, 285, 288
 Russel, J., 172
 Russell, P. B., 169, 445,
 451, 452
 Russell, W. O., 281, 287
 Rustigian, R., 264
 Rutenberg, A., 393
 Rutten, F. J., 431
 Ryan, F. J., 49, 51, 67, 68
 Ryman, B. E., 450

 S
 Sabin, A. B., 113, 230, 249,
 250, 256, 259, 261, 263,
 264, 267, 268, 271, 272,
 273, 282, 283, 285, 287,
 289, 290, 291, 293, 294,
 295
 Sachs, H., 172
 Sadusk, J. F., 95
 Saidel, L. J., 213
 St. Groth, S. F. de, see
 Fazekas de St. Groth, S.
 St. John, B. D., 398
 St. John-Brooks, R., 120
 Salk, J. E., 229, 231
 Samarth, K. D., 443
 Samuels, L. T., 266
 Sanchez, A. R., see Ruiz-
 Sanchez, A.
 Sanchez, F. R., see Ruiz-
 Sanchez, F.
 Sanchis-Bayarri, V., 285,
 287
 Sandor, G., 209
 Sangiorgi, G., 284
 Sarma, P. S., 448
 Sarraillh, A., 294
 Sasser, J. N., 156
 Sather, G. E., 264
 Sato, A. E. M., see Manso
 Sato, A. E.
 Sato, J., 110
 Sauberlich, H. E., 442
 Savat, R. S., 213
 Savino, E., 310
 Sawyer, C. H., 36
 Sawyer, W. A., 267
 Sayer, R. J., 393
 Sayer, W. J., 395
 Sazerac, R., 311
 Sbarra, A. J., 43
 Scalettar, H. E., 211
 Scatchard, G., 212, 213
 Schaafama, A., 355
 Schaeffer, K., 396, 397
 Schaefferburg, B., 176
 Schaffstein, G., 376
 Schamberg, I. L., 398
 Schapira, R., 232
 Schatz, A., 197
 Scheer, J. van der, 207

- Scheff, G., 304
 Scheiner, J., 34, 447
 Schick, B., 211
 Schieble, J. H., 457
 Schimmel, N. H., 392, 393
 Schlenk, F., 5, 19, 447
 Schlesinger, R. W., 254, 255, 259, 265, 269
 Schlingman, A. S., 394
 Schmidt, K., 208
 Schmidt, C. T., 174
 Schmidt, E. G., 456
 Schmidt, E. L., 186, 373
 Schmidt, G., 303
 Schmidt, J., 36
 Schmidt, O., 153
 Schmidt, O. C., 191
 Schmidt, R., 158
 Schmidt, S., 356
 Schnall, E. S., 397
 Schneider, L. K., 51, 67, 68
 Schneider, M. C., 11
 Schneider, W. C., 265
 Scheller, M., 63
 Schoen, R., 285, 287
 Schoenbach, E. B., 111, 223, 265, 392, 399, 442, 453
 Scholfield, P. G., 188
 Schopfer, W. H., 186, 450
 Schöttler, W. H. A., 359
 Schou, M., 18
 Schubert, J. H., 98
 Schuhardt, V. T., 301
 Schultz, A. S., 31, 331, 452
 Schultz, J., 64
 Schwab, J. L., 394
 Schwartz, A., 51, 52, 54, 60, 65, 66, 68
 Schwartz, H., 396
 Schwartzman, G., 268
 Schweinburg, F. B., 393
 Schwerin, P., 218
 Scott, D. B. M., 9
 Scott, G. W., 60
 Scott, M. L., 445
 Scott, T. F. M., 107
 Scott, V., 302
 Sears, O. H., 194
 Seddon, H. J., 249
 Seeger, D. R., 444
 Seegmiller, J. E., 10
 Seeley, D. B., 111
 Seeley, H. W., 22, 42
 Seibert, F. B., 355
 Seifert, M. H., 399
 Seinhorst, J. W., 166
 Sellards, A. W., 259
 Seltzer, R., 397
 Semb, J., 444
 Senez, J., 29
 Seppilli, A., 67
 Seraldarian, K., 19, 36
 Sevag, M. G., 9, 416, 424, 440
 Sforza, L. L. C., see Cavalli-Sforza, L. L.
 Shaffer, C. B., 457
 Shaffer, J. G., 394
 Shankar, K., 32
 Shanmuga Sundaram, E. R. B., 448
 Shapiro, B., 12
 Sharp, D. G., 146, 231
 Shaw, E., 454
 Shaw, E. W., 106, 261, 264
 Shaw, H. B., 168
 Shaw, J. N., 168
 Shedlovsky, T., 218
 Sheffield, F. M. L., 143
 Shemin, D., 216
 Sheng, T. C., 65
 Shepard, C. C., 91, 94, 105, 106, 111
 Sherman, H. C., 265, 266
 Sherwood, M. B., 451, 452
 Shih-Yi-Chen, 63
 Shimada, Y., 91
 Shive, W., 23, 437-66, 437, 438, 439, 440, 441, 442, 445, 448, 454, 455, 457
 Shock, N. W., 265, 266
 Shookhoff, H. B., 395
 Shope, R. E., 269
 Shragg, R. I., 399
 Shrigley, E. W., 286
 Shukowskaja, P. N., 200
 Shull, G. M., 111
 Shultz, S., 392
 Shumaker, J. B., Jr., 213
 Shunk, C. H., 446
 Schwartzman, G., 96, 97
 Sicher, S., 37, 455
 Sichler, G., 64
 Sickles, G. M., 261, 264
 Siegel, M. L., 395
 Siegel, R. W., 63
 Sielski, S., 96
 Siem, R. A., 421
 Siewald, R. J., 456
 Sigel, M. M., 107, 247-80, 254, 268, 273, 398
 Sigurdsson, B., 254, 265
 Sigurgonsson, J., 249
 Sili, J. C., 282, 287, 294
 Silber, L. A., 249
 Silliker, J. H., 13
 Silva Goytia, R., 95
 Silverman, M., 39, 442, 443
 Siminoff, P., 197
 Siminovitich, L., 342, 343
 Simmonds, S., 36, 418, 454, 458
 Simonsen, D. H., 62
 Simpson, L., 453
 Simpson, M. V., 457
 Sinden, J. W., 32
 Singer, E. A., 445, 456
 Singer, S. J., 145, 213
 Singh, B. N., 187
 Sisler, F. D., 14, 30, 31, 192
 Siu, R. G. H., 32
 Sizer, I. W., 216
 Skaar, P. P., 63
 Skaptason, J. B., 78
 Skeggs, H. R., 33, 36, 43, 446, 450
 Skerman, V. B. D., 199
 Skinner, C. E., 325, 326
 Skipper, H. E., 443, 453
 Skrobisz, C., 209
 Slack, J. M., 87
 Slade, H. D., 38
 Slamp, W. C., 38
 Slankis, V., 375, 376
 Slater, R. J., 222, 223
 Smadel, J. E., 92, 100, 103, 104, 109, 110, 111, 112, 259, 392, 395, 396, 397, 398, 422
 Small, M. H., 439
 Small, T., 173
 Smetena, H., 216
 Smit, A. M., 104
 Smith, A. G., 65
 Smith, A. L., 161
 Smith, B., 172
 Smith, B. S. W., 17
 Smith, C. H., 414
 Smith, D. E., 443
 Smith, D. H., 196
 Smith, D. J. W., 100
 Smith, E. L., 207-28, 209, 212, 213, 214, 219, 220, 221, 222, 223
 Smith, E. L., see Lester Smith, E.
 Smith, G. F., 378
 Smith, G. M., 62
 Smith, G. N., 390
 Smith, J. D., 94, 95, 192
 Smith, J. M., Jr., 268, 440, 442, 444
 Smith, J. R. G., 198
 Smith, K. M., 121, 128
 Smith, M. G., 258, 281, 287
 Smith, M. H. D., 394
 Smith, M. L., see Llewellyn Smith, M.
 Smith, M. R., 403
 Smith, N., 445, 456
 Smith, N. R., 185, 186, 201, 367
 Smith, O. F., 166
 Smith, P. F., 38
 Smith, P. H., 11, 22, 389, 390, 415, 416, 422, 423, 424
 Smith, R. H., 36
 Smith, R. O. A., 103
 Smith, S. C., 271, 456
 Smith, T. E., 174
 Smith, W., 131, 233, 239
 Smyrniotis, P. Z., 9, 10
 Snell, E. E., 21, 33, 34, 35, 37, 214, 440, 447, 448, 449, 458
 Snieszko, S. F., 62
 Snyder, J. C., 92, 93, 94, 95, 96, 97, 101, 102, 104, 110, 111, 442

- Snyder, M. J., 100, 110, 111, 112, 398
 Snyder-Brown, J., 55, 58
 Soars, M. H., 36, 446
 Sober, H. A., 18
 Sobin, B. A., 111
 Sokhey, S. S., 355, 359, 362
 Sologuren, F. C., see Castillo Sologuren, F.
 Solomons, I. A., 111
 Solotorovsky, M., 422, 423
 Soloviev, V. D., 249
 Soman, D. W., 104
 Sonderegger, T. B., 24
 Sonneborn, T. M., 49, 62, 63, 54
 Sorkin, E., 441
 Soule, M. H., 304, 306
 Southam, C. M., 443
 Spaini, L. A., 199
 Sparapani, G., 287
 Sparkman, D. R., 393
 Specht, A. W., 156, 158, 160, 170
 Speck, M. L., 81, 85
 Speck, R. S., 401, 402, 403, 426, 427
 Spector, A., 391
 Spencer, D., 193, 194
 Speyer, E. R., 174
 Spicer, D. S., 450
 Spicer, S., 400, 401, 427
 Spiegelman, S., 63, 454
 Spies, H. W., 393, 402
 Spink, W. W., 388, 390, 391, 400, 430
 Spinks, A., 429
 Spizzen, J., 36, 249, 453
 Spoor, H. J., 389
 Sprunt, D. H., 395
 Srb, A. M., 66, 458
 Saacharoff, G. P., 249
 Stadtman, E. R., 12, 21
 Stadtman, T. C., 2, 3, 30
 Stahl, M., 387
 Stahler, N., 421
 Stahmann, M. A., 146
 Stamps, P., 101
 Stanier, R. Y., 10, 17, 51, 77, 82, 85
 Staniland, L. N., 171
 Staniland, L. W., 171
 Stanley, W. M., 146
 Stansel, H. C., Jr., 455
 Stapleton, G. E., 57, 58
 Stapley, J. H., 172
 Stapp, C., 201
 Starbuch, E. B., 310
 Stark, E., 24
 Starkey, R. L., 30, 186, 197, 322
 Starnes, W. R., 447
 Starr, M. P., 82, 84
 Starr, T. J., 195
 Starsky, J., 95
 Stavitsky, A. B., 306, 309
 Stearman, R. L., 441
 Stebbins, E., 186
 Steck, W., 77, 81
 Steen, E., 289
 Steere, R. L., 146
 Steers, E., 416, 424, 440
 Stein, W., 59
 Steiner, G., 153, 161, 162, 163, 165, 166, 175, 177, 288
 Steinglass, P., 66
 Steinhaus, E. A., 130, 131
 Steinman, H. G., 308
 Stekhoven, J. H., 151, 152, 154, 162
 Stekol, J. A., 457
 Stekol, J. H., 440
 Stelling-Dekker, N. M., 318, 320, 330
 Stent, G. S., 333, 335, 341, 345
 Stephens, V. C., 455
 Sterling, L. D., 188
 Stern, J. R., 11, 12, 389
 Sternberger, L. A., 212
 Stetten, M. R., 439
 Stevens, C. M., 53
 Stevens, M. F., 351, 354, 359
 Stewart, F. H., 167
 Stock, J. van der, 425
 Stocker, A. D., 50, 51, 52, 68
 Stöckli, A., 191
 Stoenner, H. G., 105, 106
 Stoerk, H. C., 449
 Stofberg, F. J., 163
 Stoker, M. G. P., 94, 95
 Stokes, F. N., 10
 Stokes, J., Jr., 249, 268
 Stokes, J. L., 29-48, 33, 40, 440
 Stokinger, H. E., 218
 Stokstad, E. L. R., 22, 440, 442
 Stompen, H., 65
 Stone, J. D., 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 242
 Stone, J. L., 416, 423, 424
 Stone, W. S., 52, 53, 54, 55, 61
 Strandskov, F. B., 451, 452
 Straus, B. S., 66
 Straus, W. L., 266
 Strecker, H. J., 2
 Streeten, G. E. W., 100
 Strehler, B. L., 418
 Stritar, J., 253
 Strong, F. M., 34, 448
 Strong, L. E., 208, 209
 Strong, R. P., 107
 Strubell, A., 154
 Struble, B. B., 55
 Strugger, S., 186
 Stuart, D. C., 268
 Stubbs, J., 197
 Stulberg, C. S., 232
 Sturgeon, P., 211
 Su, T. L., 249
 Subbarow, Y., 307
 Subramaniam, M. K., 53, 65
 Sulaiman, M., 192
 Sulkin, S. E., 285
 Summers, W. A., 291
 Sundaram, E. R. B. S., see Shanmuga Sundaram, E. R. B.
 Sundelin, G., 191
 Surgenor, D. M., 208
 Sussman, O., 105
 Sussman, R. R., 63
 Sutherland, G. L., 440, 442
 Sutton, W. B., 19
 Svendsen, M., 84
 Svensson, H., 212
 Swaby, R. J., 82, 84, 199
 Swan, C., 252
 Swanger, N. H., 177
 Swanson, A. L., 390, 457
 Swanson, C. P., 55, 56, 58
 Swendseid, M. E., 457
 Sydenstricker, V. P., 399
 Szallard, L., 49, 51, 52, 67, 68, 336
 Szwarc, M., 52
 Szybalski, W., 50, 66

T

 Tabenkin, B., 446, 447
 Tager, M., 395
 Taggart, S. R., 396
 Takahashi, W. N., 145
 Tamm, I., 231
 Tanaka, C., 398
 Tanaka, K., 51, 68
 Tarjan, A. C., 160, 162, 165, 170, 172
 Tarver, H., 457
 Tasman, A., 81
 Tatsuoka, S., 456
 Tatum, E. L., 15, 35, 38, 50, 59, 63
 Tauber, H., 210
 Taylor, A. L., 161, 163, 174, 175
 Taylor, C. B., 32, 80, 187
 Taylor, D. J., 430
 Taylor, E. S., 387
 Taylor, H. E., see Ephrussi-Taylor, H.
 Taylor, H. L., 208, 209
 Taylor, R. M., 230
 Tchan, Y. T., 186, 190, 191, 194
 Teas, H. J., 16, 66, 458
 Temple, K. L., 29
 Teng, P., 400
 Tennyson, G., 172
 Tenorio, R. P., 168
 Tepperman, J., 268
 Terstan, L. A., 421
 Tetrault, P. A., 24
 Thain, E. M., 448

- Thannhauser, S. J., 303
 Thatcher, F. S., 41
 Thayer, P. S., 18
 Thaysen, A. C., 198
 Thexton, R. H., 32, 36, 186, 196
 Theiler, M., 256, 260
 Thibault, J., 81, 83
 Thiermann, E., 293, 294
 Thiery, J. P., 359
 Thirumalachar, M. J., 168
 Thomas, E. E., 163
 Thomas, E. W., 389
 Thomas, L., 392
 Thomas, J. R., 201
 Thomas, K. M., 162
 Thomas, P. A., 453
 Thomas, W. D., Jr., 145
 Thompson, C., 448
 Thompson, H. W., 155
 Thompson, T. L., 53, 58
 Thornberry, H. H., 122
 Thorne, G., 152, 153, 154, 162, 164, 165, 166, 174, 177
 Thorne, R. S. W., 57, 62
 Thornton, H. G., 192, 193
 Thrailkill, F. B., 99
 Thurston, J. P., 421
 Tibbs, R. O., 264, 269
 Tice, S. V., 16
 Tilford, P. E., 172
 Timnick, M. B., 41
 Timofeeff-Ressovsky, N. W., 50, 52, 57
 Timonin, M. I., 191, 195, 196, 199, 200, 367
 Tipton, J., 109
 Tipton, V. J., 395
 Tischler, G., 158
 Tiselius, A., 207, 208, 209
 Tittler, I. A., 36
 Tobias, C. A., 58
 Tobie, J. E., 394
 Tobie, W. C., 420
 Todd, A. R., 169
 Todd, F. A., 174
 Todd, G. M., 396
 Todd, P. H., 429
 Tolbert, B., 14
 Tomarelli, R. M., 42, 87
 Tomcsik, J., 64
 Tomlinson, N., 20
 Tomlinson, W. J., 292
 Tompsett, R., 399, 400
 Tonhazy, N. E., 22, 390, 416, 425
 Topping, N. H., 91, 94, 100, 111
 Topping, L., 78, 80, 83, 87
 Tostevin, A. L., 252
 Totter, J. R., 419, 443
 Tovarnickij, V. I., 94
 Tove, S. R., 31, 192
 Toya, H., 398
 Traub, E., 250, 251
 Traub, F. B., 57, 58
 Traub, R., 103, 104, 109, 395
 Travassos, J., 99
 Travers, J. J., 457
 Treffers, H. P., 207, 208, 209, 220, 221
 Trevan, J. W., 349, 351
 Triffitt, M. J., 169, 172
 Trousdale, H., 395
 Trucco, E. R., 6
 Truog, E., 198
 Trussell, P. C., 20
 Tschesche, R., 441
 Tsou, C. L., 13
 Tsuchida, M., 17
 Tsuyuki, H., 9
 Tubiash, H. S., 40
 Tucker, L., 67
 Tufts, W. P., 158
 Tulasne, R., 64
 Tunbridge, R. E., 249
 Tung, T., 312
 Turner, F. C., 289, 291
 Turner, T. B., 302
 Turner, W. F., 140
 Turner, W. M. L., 294
 Tuttle, L. C., 24
 Tyler, D. B., 265
 Tyler, J., 156, 157
 Tyzzer, E. E., 259
- U
- Ulrich, J. A., 449
 Umbarger, H. E., 16, 36
 Umbreit, W. W., 11, 22, 87, 387, 388, 389, 390, 391, 415, 416, 424, 425
 Updyke, E. L., 362
 Uroma, E., 208
 Urquiza, D. A., 413
- V
- Valentik, K. A., 450
 Valentine, F. C. O., 354
 Valiant, J., 33, 446
 Valteau, W. D., 122, 161
 Van Allen, A., 98
 van Assendelft, F., see Assendelft, F. van
 van Bavel, C. H. M., see Bavel, C. H. M. van
 van Damme, O., see Damme, O. van
 van de Langerijt, J., see Langerijt, J. van de
 Van der Leh, H. A. A., 143
 van der Scheer, J., see Scheer, J. van der
 van der Stock, J., see Stock, J. van der
 VanderWerff, H., 445, 451, 452, 454
 Van Eseltine, W. P., 431
 van Halteren, M. B., see Halteren, M. B. van
 van Harreveld, A., see Harreveld, A. van
 van Heyningen, W. E., see Heyningen, W. E. van
 van Irterson, W., 304
 Van Meter, J. C., 93, 391, 415
 Vanna, J., 170
 van Niel, C. B., see Niel, C. B. van
 Vanreenen, R. M., 395
 van Rij, N. J. W. K., see Kreger-van Rij, N. J. W.
 van Rooyen, C. F., see Rooyen, C. F. van
 Van Slyke, D. D., 301
 Vanterpool, T. C., 166
 Van Thiel, P. H., 304, 305, 306, 309
 van Wagtendonk, W. J., see Wagtendonk, W. J. van
 Van Winkle, W., Jr., 399
 Varela, G., 95, 99
 Vaughan, J. R., 457
 Velardo, J. T., 443
 Velazquez, J., 395
 Velluz, L., 450
 Venable, S. J., 111, 398
 Vendrely, R., 94
 Venkataraman, P. R., 443
 Vennesland, K., 424, 428
 Verge, G., 124
 Verlinde, J. D., 230, 289, 291, 293, 295
 Verona, O., 200, 329
 Viallier, J., 441
 Vigneaud, V. du, 454
 Vilter, R. W., 448
 Vincent, J. M., 193
 Vinson, C. G., 145
 Vinson, J. W., 111
 Virtanen, A. I., 39, 189, 193
 Visconti di Modrone, L., 50, 60, 65
 Visconti di Modrone, N., 50, 57, 59, 60, 65
 Visser, D. W., 452
 Voegtlin, C., 311
 Voet, J., 124
 Volcani, B., 22
 Volcani, B. E., 37, 455, 458
 Volini, I. F., 400
 Volk, W. A., 8
 von Brehmer, W., see Brehmer, W. von
 von Dippell, R., see Dippell, R. von
 von Euler, H., see Euler, H. von
 von Fenyvessy, B., see Fenyvessy, B. von
 Von Grumbach, A., 416, 421
 Von Jirovec, O., 431
 von Magnus, H., see Magnus, H. von
 von Magnus, P., see Magnus, P. von

von Magnus, R., see Magnus, R. von
 Voronova, A. F., 191
 Vos, J. J. T., 284
 Voureka, A., 388, 413, 424
 Vozniakovskaia, Y. M., 191, 196

W

- Wacker, A., 442, 452
 Waddington, H., 356
 Waelsh, H., 18, 38, 458
 Wagley, P. F., 216, 230
 Wagner, J. C., 269
 Wagner, R. R., 241
 Wagtendonk, W. J. van, 62
 Wahlgren, F., 285
 Waisman, H. A., 271
 Waksman, S. A., 198
 Walker, J. C., 146
 Walker, J. M., 109
 Walker, J. R., 105, 106
 Walker, T. K., 5, 10
 Wallace, B., 51, 52, 55, 56, 57, 60, 62, 66
 Wallace, R. H., 196
 Wallace, W., 415
 Waller, C. W., 444
 Walls, L. P., 426
 Walsh, E. O., 450
 Wammock, V. S., 396
 Wang, T. L., 190
 Wang, C. H., 441
 Wang, T. P., 19
 Wannamaker, L. W., 393
 Ware, G. C., 38
 Warcup, J. H., 187
 Ward, L. M., 193
 Ward, T. G., 310
 Ware, G. C., 428, 441
 Waring, G. B., 442
 Waring, W. S., 40, 169
 Warren, J., 128, 249, 285, 288, 289, 291
 Wartenberg, H., 143, 144
 Wasserman, E., 101
 Watanabe, A., 192
 Waterhouse, P. D., 445
 Watson, D. W., 259
 Watson, J., 442
 Watson, J. D., 333, 335, 339, 341
 Watson, M. A., 123
 Watt, D., 5
 Way, A. M., 197
 Weathersby, A. B., 421
 Webb, M., 32
 Webley, D. M., 199
 Wechsberg, F., 354
 Weed, L. L., 337, 339
 Weeks, T. E., 141
 Wegmann, T., 107
 Wehrle, P. F., 397
 Weidel, W., 66, 333, 335, 341
 Weigle, J. J., 333, 335, 336, 341, 343
 Weil, M. L., 128
 Weinberg, E. D., 37, 65
 Weindling, R., 197
 Weinman, D., 281-98, 281, 282, 283, 284, 285, 286, 287, 288, 289, 291, 292
 Weinstein, L., 397
 Weiss, K., 440
 Weiss, K. W., 457
 Weiss, L. B., 96, 97
 Weiss, P., 457
 Weissman, N., 223
 Welch, A. D., 442
 Weller, T. H., 264
 Wellman, W. E., 394
 Wells, E. B., 111, 399
 Wells, H. S., 395
 Welsch, M., 68, 81, 63
 Welsh, J. H., 265
 Welsh, H. H., 105, 106, 107
 Wenyon, C. M., 287, 299
 Wenzel, M. E., 201
 Werkman, C. H., 5, 19, 40
 Werner, C. A., 392
 Wertman, K., 99
 West, E. J., 397
 West, R. M., 396
 Westergaard, M., 53
 Westerman, C. D., 104
 Westphal, A., 287, 290, 295
 Westwater, J. S., 355
 Westwood, J. C. N., 233, 239
 Wetter, L. R., 219, 222
 Weyer, F., 108
 Weyand, F., 442, 452
 Wheeler, C. M., 96
 Wheeler, H. E., 59
 Whitaker, J. C., 395, 396, 398
 White, A., 223
 White, E., 415
 White, F., 229
 White, F. A., 164
 White, J. W., 195
 White, P. R., 303
 Whitehead, H. A., 56, 57, 58
 Whitehead, J. K., 457
 Whiteley, H. R., 19, 308
 Whiteside-Carlson, V., 42, 447
 Whitman, L., 264
 Whitney, E., 250, 251, 263
 Wiame, J. M., 14
 Wick, H. C., 111
 Wickerham, L. J., 317-32, 317, 318, 320, 321, 324, 325, 330, 331
 Wiktor, T. J., 282, 284, 287
 Wilbur, K. M., 380, 381
 Wilcox, C., 391
 Wilde, S. A., 369
 Wilder, H. C., 293
 Wildman, R. B., 37
 Wildman, S. G., 145
 Wiles, A. E., 320
 Wilfarth, H., 170
 Wilkinson, R. S., 396, 398
 Willcox, R. R., 395
 Willett, R. W., 223
 Williams, B., Jr., 398
 Williams, H. H., 269
 Williams, J. H., 391
 Williams, J. N., Jr., 443, 447
 Williams, J. W., 207, 208, 212, 213, 216
 Williams, O. B., 41, 324
 Williams, R. C., 146
 Williams, R. E. O., 354
 Williams, R. J., 33, 35, 437
 Williams, S., 100
 Williams, V. R., 34
 Williams, W. L., 35, 443, 447
 Wills, E. D., 422
 Wilmer, N. B., 100
 Wilson, A. W., 449
 Wilson, A. Y., 453
 Wilson, D. E., 229
 Wilson, D. J., 97
 Wilson, E. J., 431
 Wilson, G. F., 165
 Wilson, J. H., 143
 Wilson, J. K., 401
 Wilson, J. W., 376
 Wilson, P. W., 14, 15, 31, 190, 191, 192
 Wimmer, G., 170
 Windisch, S., 326
 Windsor, E., 16
 Winge, O., 62, 63, 65, 318, 370
 Winkler, A., 65
 Winkler, K. C., 417, 418, 431, 439, 440
 Winn, J. F., 106, 111
 Winner, H. I., 388
 Winter, E. R. S., 190
 Winter, W. D., 431
 Winterscheid, L. C., 24
 Winzler, R. J., 266, 452, 457
 Wislocki, G. B., 304
 Wissemann, C. L., Jr., 92, 93, 417, 422
 Witkin, E. M., 49, 51, 52, 54, 55, 56, 57, 59, 60, 62, 65, 66, 68
 Wittle, E. L., 448
 Wittler, R. G., 355
 Wolf, A., 281, 282, 285, 287, 292
 Wolf, D. E., 33, 446
 Wolf, F. A., 146
 Wolf, F. T., 42
 Wolfe, C. K., 393
 Wolfe, H. R., 217
 Wolfe, S., 442
 Wolfe, T. E. de, 171
 Wolff, H. H. de, 81, 63
 Wolff, R., 452
 Wolffe, E. L., 10
 Wolfson, F., 282, 285
 Wollenweber, H. W., 153, 154
 Wolman, E. L., 333, 335, 341
 Wolman, B., 306

- Wolman, M., 306
 Wood, E. C., 349, 351, 352
 Wood, E. J. F., 78, 80, 82, 88
 Wood, H. G., 265
 Wood, J., 171
 Wood, S., 38
 Wood, T. R., 33, 446
 Wood, W. A., 18
 Wood, W. B., Jr., 392, 403
 Woodbine, M., 426
 Woodburn, M. A., 413
 Woodland, J. C., 97
 Woods, D. D., 437, 440
 Woods, J. W., 397
 Woods, K. A., 443
 Woodside, G. L., 453
 Woodward, C. R., Jr., 33
 Woodward, T. E., 109, 111, 112, 392, 394, 396, 398
 Woolley, D. W., 419, 420, 437, 445, 446, 449, 454, 456
 Woolpert, O. C., 253
 Work, E., 311
 Work, T. S., 311, 420
 Wormall, A., 216, 422, 431
 Worms, R., 97
 Worrel, C. S., 390
 Worth, C. B., 97, 98
 Wright, B., 52
 Wright, B. E., 16, 37
 Wright, J., 354
 Wright, J. M., 197
 Wright, L. D., 23, 33, 36, 43, 446, 450
 Wright, L. T., 393, 395, 396, 398
 Wright, R. R., 8
 Wuhrmann, V. F., 224
 Wunderley, C., 224
 Wyatt, G. R., 337
 Wyckoff, R. W. G., 207, 340
 Wyman, L., 359
 Wyss, O., 52, 53, 54, 55, 56, 58, 61, 64, 66, 451, 452
- Y
- Yadada, T., 359
 Yager, R. H., 230
 Yamamoto, S., 168
 Yamashita, K., 398
 Yanofsky, C., 21, 65
 Yap, F., 175
 Yasue, Y., 442
 Yates, M., 59, 65, 66
 Yaw, K. E., 62
 Yegian, D., 420, 423, 424
 Yoshii, H., 168
 Yosida, N., 310
 Youmans, A. S., 441
 Youmans, G. P., 441
 Young, G. A., 263
 Young, H. N., 56, 60, 65
 Young, P. A., 174
 Yu, P.-C., 251, 232
 Yuan-Po, L., 306
 Yukawa, M., 318
- Z
- Zabin, E., 258
 Zalokar, M., 418
 Zehle, F. P., 33
 Zeltich, I., 15, 191
 Zelle, M. R., 50, 62, 63
 Zeller, E. A., 422
 Zetterström, R., 7
 Zia, S. H., 104
 Ziegenspeck, H., 377
 Zill, L. P., 62
 Zimmer, K. G., 50, 52, 57
 Zimmermann, H., 153
 Zinder, N., 64
 Zinsser, H., 96, 98, 285
 Zintel, H. A., 398
 ZoBell, C. E., 14, 30, 31, 192
 Zoril, J. G., 145
 Zopf, W., 175
 Zoutendyk, A., 355
 Zulick, S. M., 23, 35

SUBJECT INDEX

A

Acetate-replacing factor, 35
 Acetoin, formation of, 1-2
 Adsorption of virus by red blood cells, 233-35
 Age-virus susceptibility relationships, 247-74
 resume of, 274
 Algae, nitrogen fixation by, 192
 American spotted fever, 99-100
 Amino acid requirements for growth, 36-39
 temperature on, 37-38
 Amino acids
 aromatic, related factors and analogues of, 454-56
 assimilation of, 15
 miscellaneous, related factors and analogues of, 457-58
 on mutations, 37
 reactions of, 17-18
 substitutes for, 37
 synthesis of, 15-18
 p-Aminobenzoic acid
 competition of sulfonamides with, 439-41
 folic acid synthesis and, 441
 inhibition by, of chemotherapeutics, 439-41
 Anguina, 168-69
 Animal viruses, classification and nomenclature of, 124-34
 Antagonism
 between antibiotics, 401-3
 between chemotherapeutics, 426-29
 Antagonistic microorganisms in soil, 197-98
 Antibiotics, 387-403
 antagonism between, 401-3
 growth of rickettsiae and, 91-92
 in soil, 197
 suppression of multiplication by, 414-15
 synergism between, 399-401
 see also Chemotherapeutics
 Antibodies
 antigenic character of, 220-23
 characterization of, 207-24

chemical properties of, 207-15
 composition of, 213-15
 distribution in globulin, 208-9
 immunochemical properties of, 215-24
 physical and chemical modification of, 216-17
 physical properties of, 207-15
 proteolytic enzymes on, 216
 purification of, 207-15
 size of, 212-13
 transmission through placenta, 211-12
 Antigen-antibody reaction
 influence of medium on, 217-18
 relation to enzymic reactions, 215
 tests for heterogeneity in, 217-20
 Antigens, physical and chemical modification of, 216-17
 Antitoxins
 diphtheria, unit of, 355-59
 international standards for, 356
 miscellaneous, 359
 titration of, discrepancies in, 357-58
 Aphelencha, 167-68
 Associations, microorganisms and higher plants, 367-83
 Aureomycin, 390-99
 antibiotic spectrum and clinical use, 392-99
 development of resistance to, 391-92
 mode of action of, 390-91
 Avidity, of antitoxin for toxin, 358
 Azotobacter
 distribution of in soil, 189-90
 nitrogen fixation by, 190-91

B

Bacteria
 adsorption of viruses by, 333-36
 invasion of, by viruses, 333-36
 lysogenesis in, 342-44
 resistance of, to bacterial viruses, 336

Bacterial flora of soil, 185-87
 Bacterial viruses, 333-46
 absence of enzymes in, 338
 adsorption of, 333-36
 change in, on adsorption, 334-36
 formation of, summary, 344-48
 interference phenomenon of, 335-36
 liberation of, 341
 in lysogenic bacteria, 342-44
 source of phosphorus in, 339-40
 synthesis of, 336-41
 Bacteriophages, 333-46
 classification of, 134
 see Bacterial viruses
 Bacteriophagy, 333-46
 age of cells on, 249
 general nature of, 344-46
 see Bacterial viruses
 Biocytin, 33-34
 Biological substances, units of, 351-52
 Biotin, 33-34
 related factors and analogues of, 446-47
 Blood cell receptor for viruses, nature of, 232-33
 Brill's disease, 96-97
 B-vitamins
 inhibitors of, 439-50
 metabolic functions of, 20-23

C

Carbon and energy requirements, 29-30
 Carcinogenic processes, relation to mutagenic processes, 54-55
 Cellulose decomposition, 194-95
 Characterization of antibodies, 207-24
 Chemical composition of rickettsiae, 94-95
 of spirochetes, 303-4
 Chemotherapeutics
 action of
 diphasic nature of, 431
 on enzymes, 421-22
 on microbial metabolism, 416-22
 on microbial respiration, 415-16

- parasite and host on, 429-30
 antagonisms between, 426-29
 development of resistance to, 422-25
 growth factors and, 419-21
 miscellanea, 430-32
 mode of action of, 411-32
 morphological changes induced by, 413-14
 physical and physico-chemical factors on, 425-26
 synergisms between, 426-29
- Chemotherapy**
 general concept of, 411-13
 on metabolism of spirochetes, 310-13
 of nematode infections, 172-73
 of spirochetal infections, 310-13
 of toxoplasmosis, 290-92
 Chloramphenicol, 390-99
 antibiotic spectrum and clinical use, 392-99
 development of resistance to, 391-92
 mode of action of, 390-91
Chromatographic test for plant viruses, 144
Citric acid cycle in rickettsiae, 92-93
Classification of viruses, 119-36
Clostridia, nitrogen fixation by, 191
Coenzymes of fermentation, 4, 6-7
Colorimetric tests for plant viruses, 140-42
Complement fixation test, for growth of rickettsiae, 91
Composition of antibodies, 213-15
Corynebacteria
 carbon metabolism of, 81-82
 growth factor requirements of, 84
 nitrogen metabolism of, 82-84
 nutritional requirements of, 82-85
Coryneform bacteria, 77-88
 groups of, 77-78
 morphology of, 78-79
 motility of, 80-81
 relationships with Actinomycetales, 86
 reproduction of, 79
 taxonomic considerations, 85-88
- Coxsackie viruses**, host age and infection, 261
Criconematide, 182-83
Cross-reactions, antigen-antibody, 218
Cultivation of spirochetes, 306-10
 Borrelia, 306-7
 Leptospira, 309-10
 Treponema, 307-9
Cytology of nucleus, genetics and, 65
Cytoplasmic granules
 enzymes in, 24-25
 in spirochetes, 304
- D
- Deaminase production**, inhibition by glucose, 18
Dicarboxylic acid cycle, 10
Diphtheria antitoxin
 standardization of, 355-59
 unit of, 353-54
Diphtheria toxin, purified, reaction of, 358-59
Diphtheria toxoid
 immunizing potency of, 359-62
 standard of, 359-60
Ditylenchus, characteristics of, 165-67
Dubos medium, modification of, 30
Dye test for toxoplasmosis, 290
- E
- Ecology**, of mycorrhizal fungi, 367-73
Elective mutability, 59-60
Electron microscopy of plant viruses, 146-47
Electrophoresis of plant viruses, 145
Electrophoretic behavior of antibodies, 207-12
Enzymes, 23-25
 absence of, in bacterial viruses, 338
 adsorptive in viruses, biological significance of, 241
 chemotherapeutics and, 421-22
 in cytoplasmic granules, 24-25
 formation of, nutritional factors and, 39-40
 hemagglutination and, 231-33
Epidemic typhus, 95-96
Epidemiology of toxoplasmosis, 294
Equivalence zone of antigen-antibody reaction, 217
- Extrachromosomal inheritance**, 62-64
- F
- Fatty acids**, oxidation of, 13-14
Fermentations
 bacterial, 1-9
 coenzymes of, 4, 6-7
 divergence from normal pathways, 5-6
 miscellaneous, 8-9
Folic acid, 36
 related factors and analogues of, 442-45
Formate decomposition, 2-3
Formic hydrogenlyase production
 amino acids on, 3
 inhibition by nitrate, 3
Fructose, fermentation of, 4
Fungi, in soil, 187
Fungicides and soil microflora, 200-1
- G
- Galactose**, fermentation of, 4
Gamma-ray-induced mutation, 58-59
Gene recombination, 61
Genetic factors
 distribution of, 61-65
 transfer of, 61-65
Genetics of microorganisms, 49-68
 methods for study, 49-50
 reviews on, 49
Globulins, human, antibodies against, 221-23
Glucose-6-phosphate, oxidation of, 9-10
Growth factor requirements, 32-36
 acetate-replacing factor, 35
 biocytin, 33-34
 biotin, 33-34
 of corynebacteria, 84
 folic acid, 36
 inositol, 36
 lipolic acid, 35
 nicotinic acid, 33
 nucleic acid derivatives, 36
 pantothenic acid, 34-35
 pyridoxine, 33
 pyruvate oxidase factor, 35
 thiamine, 32-33
 vitamin B₁₂, 36
Growth factors
 chemotherapeutics and,

- 419-21
in soil, 186-87
- H
- Heat stability, of thermophilic enzymes, 24
- Hemagglutination, 229-43
early studies of, 229-30
of influenza virus, 230-41
receptor gradient in, 236
- Hemagglutinins
pneumonia virus of mice, 242-43
vaccinia and related viruses, 242
for viruses, 230
- Herbicides and soil microflora, 200-1
- Heterodera
characteristics of, 153-56
species of, 154
- Heterolactic fermentation, 1
- Hormones, influence against virus infections, 268-69
- Host age and susceptibility to viruses, mechanisms of, 264-74
- Human rickettsioses, 91-112
- p-Hydroxybenzoic acid, requirements for, 441-42
- I
- Immune sera, 355-59
- Immunity, in toxoplasmosis, 268-69
- Immunization against rickettsioses, 109-11
Q fever, 110-11
tsutsugamushi, 109-10
- Immunizing agents, standardization of, 349-64
- Immunochemical properties of antibodies, 215-24
- Immunological homogeneity, 217-23
- Immunological maturation, 267-68
- Immunological standardization, basic aspects of, 363-64
- Immunological substances, potency of, 349-51
- Infections, spirochetal, 299-303
- Infectious transformation of types, 64
- Influenza virus
blood cell receptor destroying enzyme of, 231
hemagglutination, 230-41
- reaction with cell surfaces, 239-41
- Inhibitors of hemagglutination by viruses, 231-32
- Inositol, 36
- Insecticides and soil microflora, 200-1
- Intracellular inclusion in virus infections of plants, 147
- Iodine test for plant viruses, 143-44
- Iron bacteria, autotrophic growth of, 29
- L
- Leguminous plants, infection with rhizobia, 194
- Life cycle of Toxoplasma, 283-84
- Lipids, virus-inhibiting, 269
- Lipoic acid, 35
- α -Lipoic acid, pyruvate oxidase factor, 23
- Lysis in bacteriophagy, mechanisms of, 341
- Lysogenic bacteria, 342-44
influence of ultraviolet light on, 342-43
- M
- Maturation, immunological, 267-68
- Meloidogyne
characteristics of, 156-60
population dynamics and plant growth, 160
species of, 156
- Mendelian inheritance, 61-62
- Metabolism
chemotherapeutics on, 416-22
of corynebacteria, 81-84
of host, virus infection and, 264-66
of microorganisms, 1-25
of spirochetes, 299-314
- Metabolite analogues, 437-58
theoretical considerations of, 437-39
- Methane fermentation, 3-4, 30
- Methionine, related factors and analogues of, 456-57
- Methylene blue test for plant viruses, 144
- Microbiology of soil, 185-202
antagonistic microorganisms and, 197-98
soil structure and, 198-99
- Minerals
adsorption of, by mycorrhizal roots, 380-83
- requirements for growth, 31-32
- Morphological changes, induced by chemotherapeutics, 413-14
- Morphology
of Azotobacter, 190-91
of corynebacteria, 78-79
of rhizobia, 192-93
of Toxoplasma, 282-83
- Mucoprotein as inhibitor of hemagglutination, 321-32
- Multiplication, suppression by antibiotics, 414-15
- Murine typhus, 97-98
- Mutagenic chemicals, 52-55
- Mutagenic processes, relation to carcinogenesis, 54-55
- Mutation
analysis of, 50-61
chemically induced, 52-55
delay of appearance, 60-61
elective, 59-60
light reversible, 58
nature of, 52
radiation-induced, 55-59
spontaneous, 51-52
statistics of, 50-51
- Mycorrhizal flora, 196
- Mycorrhizal fungi
ecological status of, 367-73
host structure and infection by, 374-76
infection of roots by, 373-74
inhibition of, 372-73
persistence of, in soil, 370-71
physiology of, 368-69
spread of, in soil, 370
- Mycorrhizal infections, host structure and, 374-76
- Mycorrhizal roots
adsorption of minerals by, 380-83
as nutrient-absorbing organs, 376-80
- Myeloma proteins, 223-24
- N
- Nematode infections
chemotherapy of, 172-73
hot water treatments of, 171-72
miscellaneous control measures, 173
- Nematodes
control of by soil treatment, 173-75
hatching stimulants for, 169
miscellaneous root parasites, 164-65

- natural enemies of, 175-77
 parasitic, on plants, 151-77
 physiological behavior of, 169-77
 phytoparasitic
 bionomics of, 152-69
 host range of, 152-69
 taxonomy of, 152-69
 on plant nutrition, 170-71
 root attractives for, 169
 Neurotropic viruses, host age and infection, 256-61
 Nicotinic acid, 33
 related factors and analogues of, 447
 Nitrification in soil, 188-89
 Nitrifying bacteria, 188-89
 Nitrogen fixation, 14-15
 intermediates in, 31
 microorganisms involved in, 30-31
 oxygen tension on, 193
 Nitrogen-fixing bacteria, 189-94
 nonsymbiotic, 189-92
 symbiotic, 192-94
 Nitrogen metabolism, 14-19
 Nitrogen metabolism
 yeast, 31
 Nomenclature of viruses, 119-36
 North Queensland tick typhus, 100
 Nuclear cytology and genetics, 65
 Nucleic acids
 of bacteria and their viruses, 337-40
 derivatives of, 36
 metabolism of, 18-19
 metabolism of, 18-19
 virus infected bacteria, 337-40
 Nutrients, adsorption of, by mycorrhizal roots, 376-80
 Nutrition
 of corynebacteria, 82-85
 enzyme formation and, 3, 39-40
 factors of
 function of, 20-33
 metabolism of, 20-33
 general considerations of, 41-44
 of microorganisms, 29-44
 sporulation and, 40-41
 stability of microbiological assays and, 43

 O
 Oleic acid, metabolic function of, 23
 Organic acids, biosynthesis of, 12-13
 Oxidations, bacterial, 9-14
 Oxidative assimilation, 14
 Oxygen tension, nitrogen fixation and, 193

 P
 Pantothenic acid, 34-35
 related factors and analogues of, 447-48
 Pasteur effect, 7-8
 Pentoses, fermentation of, 4-5
 Penicillin, 387-89
 Penicillin
 antibiotic spectrum, clinical use and, 389
 development of resistance to, 388-89
 mode of action of, 387-88
 Peptide requirements for growth, 38-39
 Phage production, influence of chemotherapeutics on, 431-32
 Phenogenetics, 65-67
 Phenol test for plant viruses, 144
 Phloroglucinal tests for plant viruses, 142-43
 Phosphorus, of bacterial viruses, 339-40
 Physical factors, influence of, on action of chemotherapeutics, 425-26
 Physicochemical factors, influence of, on action of chemotherapeutics, 425-26
 Physiology
 of mycorrhizal fungi, 368-69
 of Toxoplasma, 284-85
 Plants
 nematode diseases of, 151-77
 nutrients of, microorganisms on, 199-200
 roots of, on microorganisms, 195-96
 tissue of, identification of virus infection in, 139-48
 Plant viruses, classification and nomenclature of, 121-24
 Pleuropneumonia-like organisms, relation to viruses, 134
 Pneumonia virus of mice, hemagglutinins in, 242-43
 Polysaccharides, synthesis of, 23-24
 Population genetics, 67-68

 Potency of immunological substances, 349-51
 Pratylenchus
 characteristics of, 160-62
 species of, 162
 Precipitin reaction
 cross-reactions in, 218
 medium on, 217-18
 tests for homogeneity in, 218-19
 Prophages, 343
 Propionic acid fermentation, 2
 Proteins
 metabolism of, interference by chemotherapeutics, 417-19
 in myeloma, abnormal nature of, 223-24
 serum, electrophoretic behavior of, 207-12
 synthesis of, bacterial viruses and, 336-38
 Protozoa in soil, 187
 Purines, related factors and analogues of, 452-54
 Pyridoxine, 33
 Pyrimidines, related factors and analogues of, 450-52
 Pyruvate oxidase factor, 23, 35

 Q
 Q fever, 104-7

 R
 Radiation-induced mutation, 55-59
 secondary factors on, 57-59
 Reactive group of antibodies, 215-16
 Red blood cells
 electrophoretic mobility of, hemagglutination and, 236-37
 receptor for influenza virus, 231
 Reproduction of corynebacteria, 79
 Resistance barriers against viruses, 270-73
 Resistance to chemotherapeutics, 422-25
 Respiration
 alteration in, in virus-infected bacteria, 340
 chemotherapeutics on, 415-16
 of rickettsiae, 92-93
 of spirochetes, 304-6
 terminal, 10-12
 Rhizobia, cytology of, 192-93

Rhizosphere, microbiology of, 195-96
 Riboflavin, related factors and analogues of, 448-49
 Ribonucleic acids, changes in during bacteriophage, 334-35
 Rickettsiae
 chemical composition of, 94-95
 growth of, 91-92
 inhibition by antibiotics, 91-92
 metabolism of, 92-93
 inhibitors of, 93-94
 suspending media for, 93
 Rickettsial pox, 101-2
 Rickettsioses
 biological aspects of, 95-109
 epidemiologic aspects of, 95-109
 human, 91-112
 immunization against, 109-11
 tetracycline therapy of, 111-12

S

Sera, immune, 355-59
 Serological tests for
 toxoplasmosis, 289-90
 Siberian tick typhus, 100-1
 Size of antibodies, 212-13
 Snake venoms, 355
 Soil
 management, 200
 microbiology, 185-202
 microflora, factors influencing, 200-2
 sterilization, 201-2
 structure, influence of microorganisms on, 198-99
 treatments for nematode control, 173-75
 Soil microorganisms, 185-87
 bacteria, 185-87
 fungi, 187
 plant roots and, 195-96
 protozoa, 187
 Spirochetal infections, 299-303
 chemical composition of, 303-4
 chemotherapy of, 310-13
 cultivation of, 306-10
 cytology of, 304
 genera of, 299-301
 metabolism of, 299-314
 chemotherapy of, 310-13
 respiration of, 304-6
 Spontaneous mutation, 51-52

Sporulation, nutritional factors influencing, 40-41
 Spotted fever group of rickettsioses, 98-102
 Spreading factor, in syphilis, 302
 Standardization of immunological substances, 349-54
 Statistical evaluation of biological products, 349
 Sterilization of soil, 201-2
 Stone fruit viruses, chemical tests for, 139-40
 Streptomycin, 389-90
 antibiotic spectrum and clinical use, 390
 bacterial decomposition of, 30
 development of resistance to, 390
 mode of action of, 389-90
 Succinic acid, photosynthetic production of, 13
 Sulfate-reducing bacteria, nutrition of, 29-30
 Susceptibility to virus infections, age on, 247-74
 Synergism
 between antibiotics, 399-401
 between chemotherapeutics, 426-29
 Synthesis
 of amino acids, 15-18
 of bacterial viruses, 336-41

T

Taxonomy
 of coryneform bacteria, 95-98
 of yeasts, 317-31
 Terminal respiration, 10-12
 Terramycin, 390-99
 antibiotic spectrum and clinical use, 392-99
 development of resistance to, 391-92
 mode of action of, 390-91
 therapy, of human rickettsioses, 111-12
 Tetanus toxoid, standard of, 359-60
 Thermophilic bacteria, enzymes of, 24
 Thiamine, 32-33
 related factors and analogues of, 449-50
 Tobacco mosaic disease, plant age on, 248-49
 Toxins, 352-55
 diphtheria, 352-54

miscellaneous, 355
 staphylococcal, 354-55
 tetanus, 355
 Toxoids, 359-63
 aluminum hydroxide adsorbed, 361-62
 immunizing potency of, 359-62
 standards for, 359-60
 Toxoplasma, 281-88
 classification of, 282
 culture of, 285
 differentiation of, 284
 experimental infection with, 287-88
 life cycle of, 283-84
 morphology of, 282-83
 natural infection with, 287
 physiology of, 284-85
 strains of, 288
 toxin of, 285-87
 Toxoplasmosis, 288-95
 chemotherapy of, 290-92
 distribution of, 281-82
 epidemiology of, 294
 general characteristics of, 281-82
 immunity against, 288-89
 immunology and serology of, 289-90
 prevalence of, in humans, 294-95
 transmission of, 292-94
 Toxotoxin, 285-87
 Trace metals, function of, 20
 Transmission of toxoplasmosis, 292-94
 Trench fever, 107-9
 Tricarboxylic acid cycle, 10-12
 Tsutsugamushi disease, 102-4
 Tuberculin, 355
 Tumor-producing viruses, host age and infection, 251-62
 Tylenchulus semipenetrans, 163-64
 Type transformation, 64
 Typhus
 epidemic, 95-96
 murine, 97-98
 Typhus group, 95-98

U

Ultraviolet-induced mutation, 55-59
 mechanism of, 55
 relation to killing effect, 57-59
 Ultraviolet light
 on lysogenic bacteria, 342-43
 tests for plant viruses, 144

Unit, of biological substances, 351-52
 Uridinediphosphoglucose, coenzyme of galactose fermentation, 4

V

Vaccines, 359-63
 evaluation of, 362-63
 Vaccinia and related viruses, hemagglutinins in, 242
 Virus adaptation, influence of host age on, 269-71
 Virus hemagglutination, inhibitors of, 231-32
 Virus hemagglutinins, range of, 230
 Virus-host cell interaction, 229-43
 Virus infections
 age and clinical picture of, 250, 261-62
 age on susceptibility to, 247-74
 direction of change and, 263-64
 genetic and physiologic factors and, 249-50
 anatomical and cytological changes in, 266
 of chick embryo, 253-56
 dosage required to induce, 254-55
 multiplication of virus in, 255-56
 severity of, 254
 under experimental conditions, 252-64
 of fetus, 252
 of guinea pig embryo, 252-53
 homoencephalitic barrier against, 267-68
 hormones on, 268-69
 infected and virus-free mouse colonies on,

260-61
 latent and age factor, 250-52
 localized barriers against, 270-73
 metabolism on, 264-66
 under natural conditions, 249-52
 neurotropic, in animals other than mice, 259-60
 neurotropic, in mice, 257-59
 history of virus on, 258-59
 and route of inoculation in mice, 256-58
 Virus infections of plant tissue
 identification of, 139-48
 tests for
 acid, 139-40
 chromatographic, 144
 colorimetric, 140-42
 electron microscope, 146-47
 electrophoretic, 145
 intracellular inclusions, 147
 iodine, 143-44
 methylene blue reduction, 144
 phenol, 144
 phloroglucinol, 142-43
 ultraviolet, 144
 Virus-inhibitory substances, 269
 Viruses
 animal, classification and nomenclature of, 124-34
 antibodies against, 267-68
 bacterial, 333-46
 classification of, 134
 classification of, 119-36
 principles of, 127-28
 influenza reaction with

cell surfaces, 239-41
 localization of in skin, 266-67
 nomenclature of, 119-36
 plant, classification and nomenclature of, 121-24
 red blood cell surface and adsorption by, nature of reaction, 233-35
 interaction of, 237-39
 modification of, 235-36
 relationship between bacterial and animal, 344
 resistance barriers against, 270-73
 Vitamin B, see B vitamins;
 and specific vitamins
 Vitamin B₆, related factors and analogues of, 448
 Vitamin B₁₂, 36
 related factors and analogues of, 445-46

W

Western equine encephalomyelitis virus, host age and infection, 261

X

X-ray induced mutation, 56-57

Y

Yeasts
 recent classifications of, 317
 taxonomy of, 317-31

Z

Zone phenomenon, in action of chemotherapeutics, 430-31

